Order No: MD0003026C3

Service Manual

Portable Stereo CD System

COMPACT disc DIGITAL AUDIO

RX-ES25

Colour

(S).....Silver Type

GC.....Middle Near East

GN.....Oceania

Tape Deck: SG2 Mechanism Series

Traverse deck: CU100 Mechanism Series

Specification

■ RADIO

Frequency Range	
AM	522-1629 kHz (9 kHz steps)
	522-1630 kHz (10 kHz steps)
FM	87.5-108 MHz (50 kHz steps)
Intermediate Frequency	
AM	450 kHz
FM	10.7 MHz
Sensitivity	
AM	36 dB/m/50 mW
FM	17 dB/50 mW

■ TAPE RECORDER

Track System	4 track, 2 channel, stereo
Recording System	AC bias
Erasing System	Multi Pole magnet
Monitor System	Variable sound monitor
Frequency Range	
Normal position	50-14000 Hz

■ CD PLAYER

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam Source	Semiconductor laser (wavelength 780 nm)
No. od channels	2 channel, stereo
Wow and flutter	Below measurable limit
D/A converter	MASH (1 bit DAC)

■ GENERAL

Power requirement	
AC	110-127 V/220-240 V, 50/60 Hz
Power consumption	33 W
Battery	12 V (8 R20/LR20 D size, UM-1 batteries)
Memory backup for computer/clock	6 V (4 R6/LR6 (AA, UM-3) batteries)
Speakers	
Full Range	8 cm 5.4Ω x 2
Jacks	
Power Output	140 W (PMPO)
Dimension (W x H x D)	529 x 144 x 276 mm
Weight	About 4.3 kg without batteries

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic®

© 2000 Matsushita Electronics(s) Pte. Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

10 Self Diagnostic Function

10.1. Setting of self-diagnosis Function

10.1.1. Setting of CD self-diagnosis mode

1. Remove the cassette from the deck.
2. Switch to CD function.
3. Press the CD/TAPE STOP key of the main set for more than 2 seconds. While pressing this key, press the FF key on the main set for another 2 seconds to enter into the Self-Diagnosis mode.

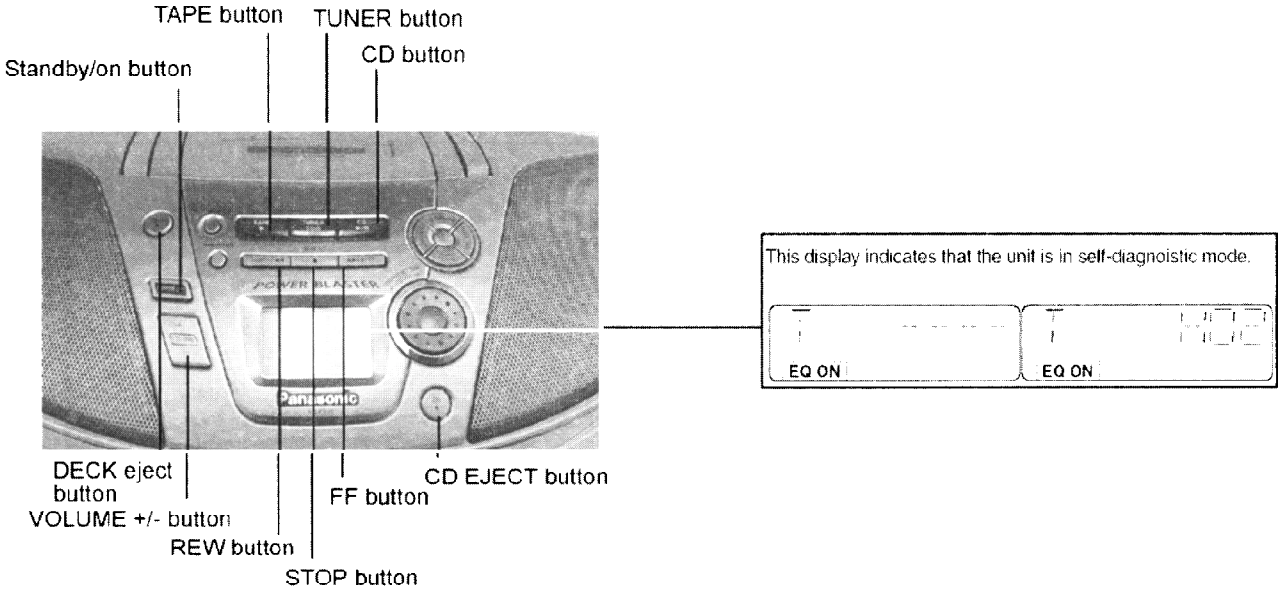
   *Even if STOP / FUNCTION key of the main set is pressed while the Self Diagnosis mode is on, function shall not be switched. Instead, confirmation of error numbers shall begin.

10.1.2. Setting of cassette mechanism self-diagnosis mode

1. Activate the Self Diagnosis mode with the Deck unloaded.
2. The test mode display ([T] at the 1st digit shows TEST) shall be made and detection shall be executed to check RECINH SW, HALFSW are in OFF state.

   (the tape counter display is retained)
3. Load a cassette tape (with recording preventive tab present) into a deck and close the cassette holder.
4. At this instant with the cassette loaded in RECINH SW, HALF SW shall be checked and confirmed at this stage by the software. Press FF key to proceed the self-diagnosis. The FF operation shall stop automatically after 3 sec. If abnormal operation is detected, the tape shall stop automatically after 1 sec. During the FF operation, the Reel Pulse shall be checked by the software.
5. After the tape stop, the Error codes shall be displayed by toggling the STOP key.

10.2. Display Location



10.3. Display Content

Note:

Items marked with ( ) are automatically displayed, and do not required the procedure describe in the section "Self-Diagnosis Function".

Display Code	Symtom or condition	Cause and method of correction
*U01	When operating on batteries, power goes off immediately after being turned on.	The batteries are depleted. Replace with new batteries.
*U02	Power cannot be switch on.	The power cord (AC) or insert fresh batteries.
H01	Cassette deck does not operate correctly.	Faulty cassette deck mechanism mode detection switch (DECK 1: S951, DECK 2: 971), reel motor and plunger.(Check and replace)
H02	Units does not record, or the unit goes into recording mode even when the erasure prevention tabs have been removed from the cassette.	Faulty erasure-prevention tab detection switch (S974, S975) or short circuit.(Check and replace)
H03	Tape does not display, even when the tape deck play button is pressed.The motor operates when the tape deck play button is pressed. even when no cassette is loaded in the deck.	Faulty tape detection switch (DECK 1:S952, DECK 2: S972) or short-circuit.(Check and replace)
H15	The CD tray closes immediately after it is opened.	Faulty contact of the CD tray open detection switch (SW790). (Check and replace)
H16	The CD tray opens immediately after it is closed.	Faulty contact of the CD tray open detection switch (SW791). (Check and replace)
F01	When the play button is pressed, the tape advances only slighlly and then stops.	Reel pulse error. (Faulty Hall IC)(Check and replace)
F02	TPS (Tape Program Search) does not work.	Faulty TPS signal detection or faulty plunger control.Check and replace mechanism control IC)
F15	When the CD Play button is pressed when either the power is off, or from some function other than CD, it takes excessive time (10 seconds or more) for the CD to play.	Faulty traverse inner circumference position detection switch (S701).(Check and replace)
*F26	When the CD operation mode is selected by pressing CD display. and the CD does not play when it has been loaded.	Communication error between servo-processor IC and microprocessor IC.(Check and replace)
F75	When a CD is loaded, "NO DISC" is displayed and the CD does not play.	Faulty CD circuit power supply. (Faulty power supply IC or CD circuit power supply system.) (Check and replace). Flexible circuit board has become disconnected or broken wiring. (Check and replace) Faulty servo-processor IC. (Check and replace)

12 Measurements and Adjustments

12.1. Tuner Section

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT
1. Set selector switch to AM or TAPE. 2. Set volume level to 40. 3. Output of signal generator should be no higher than necessary to obtain an output reading.

• AM-RF ALIGNMENT

Signal Generator or Sweep Generator		Radio Dial Setting	Indicator (Electronic Voltmeter or oscilloscope)	Adjustment(Shown in Fig.1)	Remarks
Connections	Frequency				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	594 kHz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L3 (AM ANT coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	1503 kHz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	CT1 (AM ANT Trimmer)	Adjust for maximum output.

[*1] Fix antenna coil with wax after completing alignment.

• FM-RF ALIGNMENT

Signal Generator or Sweep Generator		Radio Dial Setting	Indicator (Electronic Voltmeter or oscilloscope)	Adjustment(Shown in Fig.1)	Remarks
Connections	Frequency				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	87.5 MHz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L4 (AM IFT)	Adjust for maximum output.

• HEAD AZIMUTH ALIGNMENT

Test Tape	Indicator (Electronic Voltmeter or oscilloscope)	Adjustment	Remarks
QZZCFM (8 kHz, -20 dB)	Headphone Jack (32Ω)Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Azimuth Screw (Shown in Fig. 3)	1. Insert a test tape (QZZFCM) and start playback in the forward direction. 2. Adjust the azimuth screw for maximum waveform on the oscilloscope and the similar output on L and R channels. 3. When adjusting the azimuth in the reverse direction, repeat the adjustment several times because of a little slip on the forward direction side.

CAUTION:

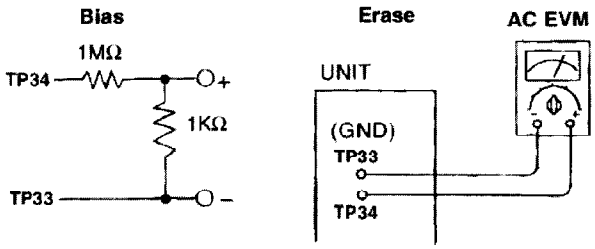
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- After the adjustment, apply screw lock to the azimuth adjusting screw. (Screw-locking bond: RZZ0L01)

• TAPE SPEED ALIGNMENT

Test Tape	Equipment Connection Electronic Counter	Adjustment	Specification	Remarks
QZZCWAT (3 kHz, -10 dB)	Headphone Jack (32Ω)Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	—	3000 ± 90 Hz	Playmode

• **BIAS AND ERASE VOLTAGE CHECK**

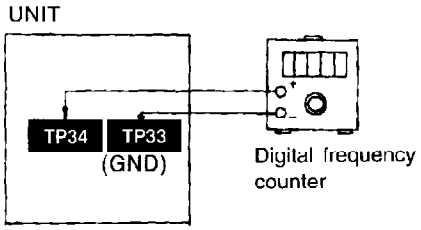
1. Set the unit to "TUNER MODE" position.
2. Insert the Normal blank tape (QZZCRA) into DECK and set the unit to "REC" mode (use "●REC / STOP" key).
3. Measure and make sure that the output is within the standard value.
4. Insert the CrO2 tape (QZZCRX).
5. Repeat steps 2 and 3.



Bias voltage for Deck 2 (Standard value): 14 ± 1mV (Normal)

• **BIAS FREQUENCY ADJUSTMENT**

1. Set the unit to "TUNER MODE" position.
2. Insert the Normal blank tape (QZZCRA) into DECK and set the unit to "REC" mode (use "●REC / STOP" key).
3. Adjust CP1301 so that the output frequency is within the standard value.



Standard value: 98 ± 10kHz

12.2. CD Section

Alignment is unnecessary for CD section of this unit.

12.2.1. Alignment Points

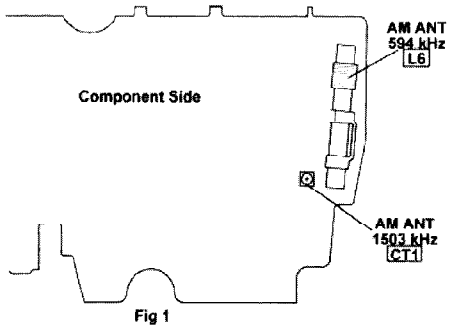


Fig 1

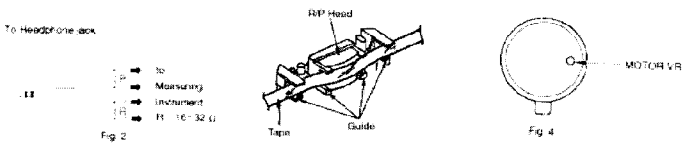
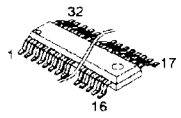


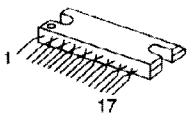
Fig. 2 Fig. 3 Fig. 4

13 Type Illustration of IC's, Transistors and Diodes

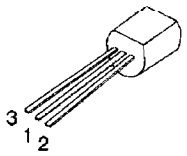
TA2008AN (24P)
LC72131D (22P)
BA5948FPE2 (28P)



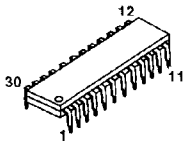
LA4663



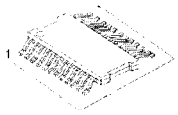
S81350HG-Z (3P)
S-80733ANY-Z (3P)



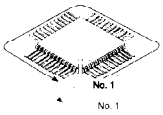
LC75342



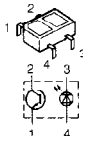
AN8839NSBE2



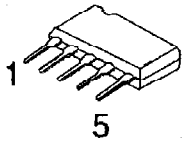
MN662790RSC (80P)
MN101C38AAD3 (100P)



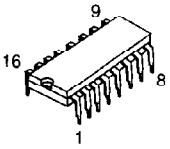
ON2180RLC1



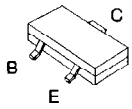
BA7755A (5P)



AN7317

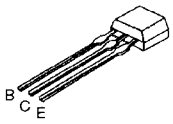


2SA1037AKSTX

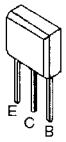


2SC1740SRTA
2SC1740SLNRT
2SD2470TP
RVTDTA143XST
RVTDTC144EST
RVTDTC114YST
RVTDTC114EST
RVTDTC143TST

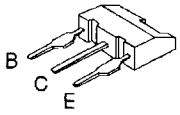
RVTDTC143XST



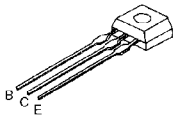
2SA1515STPQ
2SC1741ASTPR
2SA854STPQ



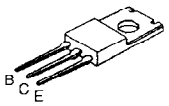
2SB1240RTV2



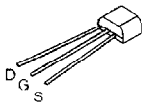
2SA933SSTA



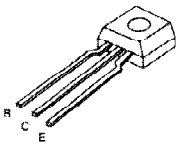
2SB1566E



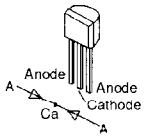
2SJ498CTA



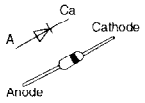
2SC3311ARTA



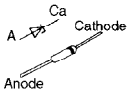
KV1520NT1-2
KV1360NTM



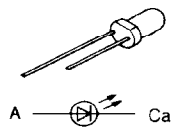
RVD1SS133TA
1SR35400V
MA165TA



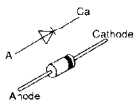
MTZJ12BTA
MTZJ5R1BTA
MTZJ9R1BTA
MTZJ6R2BTA
MTZJ7R5CTA



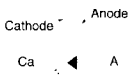
SLR325VRT31



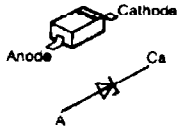
1N5402BM21



LNW9A8BYBZ



MA8056MTX



14 Terminal Function Of IC's

- **IC701 (AN8839SBE2) Servo Amplifier**

Pin No.	Mark	I/O	Function
1	PDE	I	Tracking signal input 1
2	PDF	I	Tracking signal input 2
3	VCC	I	Power supply
4	PDA	I	Focus signal input 1
5	PDB	I	Focus signal input 2
6	LPD	I	APC Amp. Input
7	LD	O	APC Amp. Output
8	RF	O	RF addition output
9	RFIN	O	RF signal input
10	CSBRT	-	Capacitor for OFTR connection terminal
11	CEA	-	HPF Amp.
12	BDO	O	BDO output
13	LDON	-	APC control
14	GND	-	Ground
15	RFDET	O	NRFDET output
16	CROSS	O	CROSS output
17	OFTR	O	OFTR output
18	VDET	O	VDET output
19	ENV	O	3 TENV output
20	EMOFF	-	ENV control
21	TEBPF	I	VDET input
22	TEN	I	TE Amp. input
23	TEOUT	O	TE Amp. output
24	FEOUT	O	FE Amp. output
25	FEN	I	FE Amp. input
26	VREF	O	Reference voltage output
27	TBAL	-	TBAL control
28	FBAL	-	FBAL control

- **IC702 (MN662790RSC) Servo Processor/Digital Processor/Digital Filter/D/A Converter**

Pin No.	Mark	I/O	Function
1	BCLK	O	N.C.
2	LRCK	O	N.C.
3	SRDATA	O	N.C.
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	I	GND (for digital circuit)
6	TX	O	Digital audio interface signal output (Latches data at first transition)
7	MCLK	I	Microprocessor command clock signal input
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sense signal output (OFT,FESL,MAGEND,NAJEND,POSAD,SFG) (Not used, open)
11	/FLOCK	O	Focus servo feeding signal output ("L": Feed)
12	/TLOCK	O	Tracking servo feeding signal output ("L": Feed)
13	BLKCK	O	Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q resistor
15	SUBQ	O	Sub-code Qcode output
16	DMUTE	I	Muting input ("H": mute)
17	STAT	O	Status signal output (CRC,CUE,CLVS,TTSTVP,FCLV,SQC)
18	/RST	I	Reset signal input
19	SMCK	O	1/2-divided clock signal of crystal oscillating at MSEL = "H" (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = "L" (fSMCK = 4.2336 MHz)
20	CSEL	I	Frequency Selection Terminal H = 33.8688 MHz; L = 16.9344 MHz
21	TRV	O	N.C.
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON output ("L": ON)
24	ECM	O	Spindle motor drive signal output (forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	N.C.
27	TRD	O	Traverse drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD,ECS,TRD,FOD,FBAL,TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H": detection)
36	OFT	I	Off-track signal input ("H": off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L: detection)
39	BDO	I	Dropout signal input ("H": Dropout)
40	LDON	O	Laser on signal input ("H": ON)
41	PLLF2	I/O	N.C.
42	DSLF2	O	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	WVEL	O	N.C.
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias terminal (Not used, open)
47	DSLF	I/O	DSL loop filter terminal
48	PLLF	I/O	PII loop filter terminal
49	VCOF	I/O	VCO loop filter terminal
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	I	GND (for analog circuit).
52	EFM	O	EFM signal output
53	PCK	O	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	VCOF2	I/O	VCO loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit
55	SUBC	O	Sub-code serial data output
56	SBCK	I	Clock input for sub-code serial data
57	VSS	I	GND
58	X1 IN	I	Crystal oscillating circuit input (f = 16.9344MHz)
59	X2 OUT	O	Crystal oscillating circuit input (f = 16.9344MHz)
50	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	O	Byte clock output
62	/CLDCK	O	Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)
63	FCLK	O	Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)

Pin No.	Mark	I/O	Function
64	IPFLAG	O	Interpolation flag output ("H": Interpolation)
65	FLAG	O	Flag output
66	CLVS	O	Spindle servo phase synchronizing signal output ("H": CLV, "L": rough servo)
67	CRC	O	Sub-code CRC checked output ("H": OK, "L": NG)
68	DEMPH	O	De-emphasis ON signal output("H":ON)
69	RESY	O	Frame re-synchronizing signal output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	I	GND
75	OUTR	O	Right channel audio signal output
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RSEL="L")
77	IOVOD	I	5V supply input
78	PSEL	I	Test terminal (connected to Gnd)
79	MSEL	I	SMCK oscillating frequency designation input("L":4.2336MHz,"H":8.4672MHz)
80	SSEL	I	SUBQ output mode select ("H": Q-code buffer mode)

• IC703 (BA5948FPE2) Focus Coil/Tracking Coil/Traverse Motor/Spindle Motor Drive

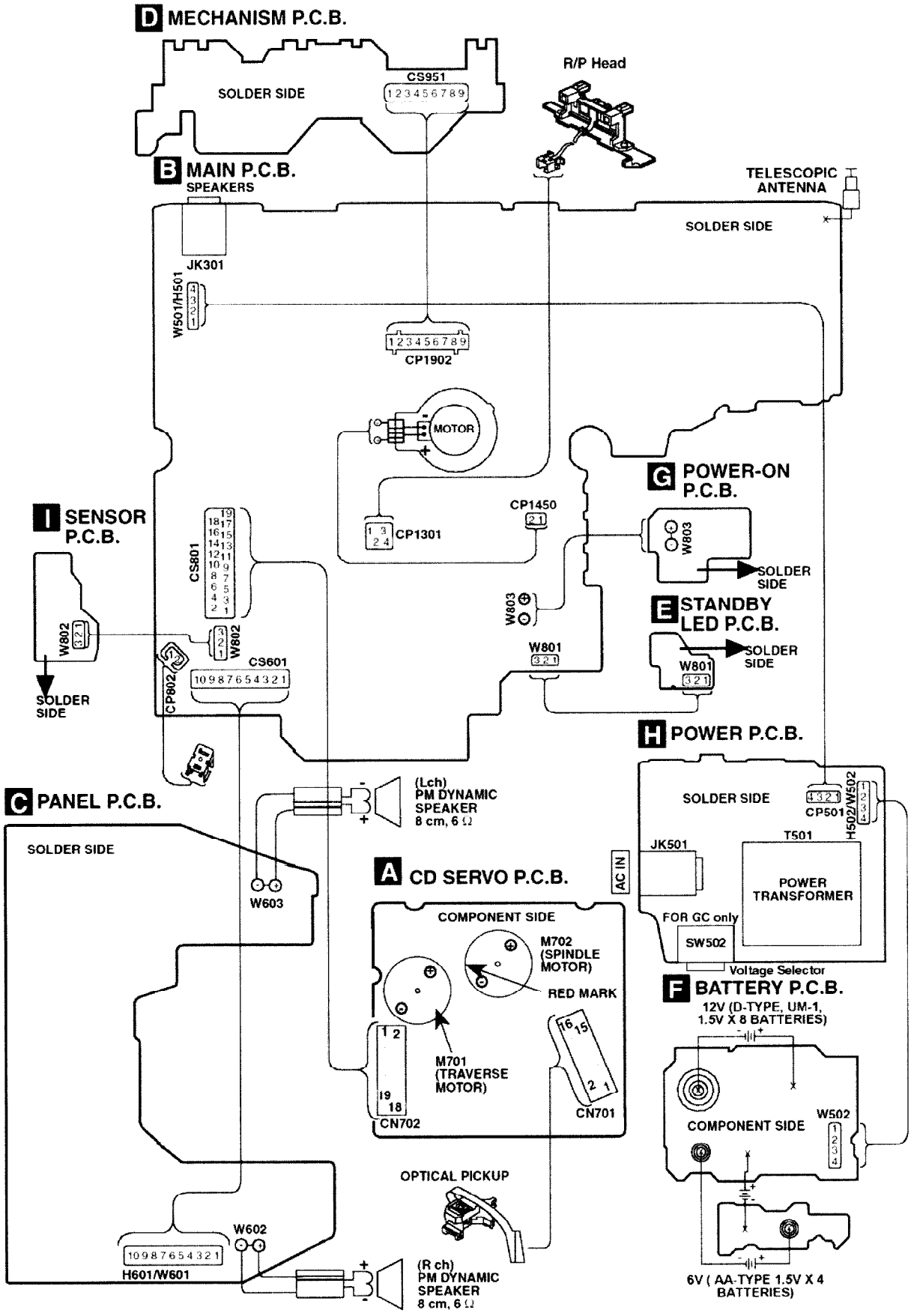
Pin No.	Mark	I/O	Function
1	IN2	I	Motor driver (2) input
2	PC2	I	Turnable motor drive signal ("L": ON)
3	IN1	I	Motor driver (1) input
4	PC1	I	Traverse motor drive signal ("L": ON)
5	NC	-	Not used
6	NC	-	Not used
7	NC1	I	Power supply (1) for driver
8	NC1	-	Ground connection (1) for driver
9	PGND1	-	Ground connection (1) for driver
10	PVCC1	I	Power supply (1) for driver
11	D1-	O	Motor driver (1) reverse - action output
12	D1+	O	Motor driver (1) forward - action output
13	D2-	O	Motor driver (2) reverse - action output
14	D2+	O	Motor driver (2) forward - action output
15	D3-	O	Motor driver (3) reverse - action output
16	D3+	O	Motor driver (3) forward - action output
17	D4-	O	Motor driver (4) reverse - action output
18	D4+	O	Motor driver (4) forward - action output
19	PVCC2	I	Power supply (2) for driver
20	PGND2	-	Ground connection (2) for driver
21	NC	-	Not used
22	NC	-	Not used
23	NC	-	Not used
24	NC	-	Not used
25	VCC	I	Power supply terminal
26	VREF	I	Reference voltage input
27	IN4	I	Motor driver (4) input
28	IN3	I	Motor driver (3) input

• IC801 (MN101C38AAD3) MICON

Pin No.	Mark	I/O	Function
1	COM3	O	LCD common output
2	COM2	O	LCD common output
3	COM1	O	LCD common output
4	COM0	O	LCD common output
5	VLC3	-	LCD bias
6	VLC2	-	LCD bias
7	VLC1	-	LCD bias
8	VDD	-	VDD +5V
9	OSC2	O	4.19 MHz Ceramic OSC output
10	OSC1	I	4.19 MHz Ceramic OSC input
11	VSS	-	Ground
12	X1	I	32.768kHz OSC input
13	X0	O	32.768kHz OSC output
14	MMOD	I	Microprocessor mode set to "L"
15	VREF-	-	Analog reference ground
16	KEY1	A/D	Key input 1
17	KEY2	A/D	Key input 2
18	REG_1	I	Region setting 1
19	REG_2	I	Region setting 2
20	REG_3	I	Region setting 3
21	REG_4	I	Region setting 4
22	PDET	A/D	Power supply voltage detect
23	ADL_IN	A/D	Deck mechanism condition input
24	VREF+	O	+5 reference for A/D
25	NC	O	No connection
26	SUBQ	I	CD subcode data input
27	SQCK	O	CD subcode data clock
28	MBP1	O	Micro-P beat proof control output 1
29	MBP2	O	Micro-P beat proof control output 2
30	T_MUTE	O	Tuner mute
31	PLL DO	I	PLL if count input
32	/RESET	I	System reset input
33	PLL DA	O	PLL data output
34	PLL CLK	O	PLL clock output
35	PLL CE	O	PLL chip enable output
36	BP	O	Beat proof for AM
37	/DMT	O	Tape mute output
38	BLKCK	I	CD subcode block clock input
39	RMT_IN	I	Remote control input
40	/VCCDET	I	Laser on signal input ("H": ON)
41	CDOP_SW	I	CD open switch
42	PHOTO_I	I	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	MOTOR_L	O	N.C.
44	REC_H	O	RF signal input
45	PL	O	Reference current input
46	SP_CLK	O	DSL bias terminal (Not used, open)
47	SP_DAT	O	DSL loop filter terminal
48	ST_LTH	O	Pll loop filter terminal
49	CD_L	O	VCO loop filter terminal
50	MUTE_A	O	Power supply input (for analog circuit)
51	MCLK	O	GND (for analog circuit).
52	MDATA	O	EFM signal output
53	MLD	O	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	STAT	I	CD status input
55	CD_RESET	O	CD RST output
56	RESET_SW	I	CD limit SW input for the most inner point
57	CD_OPEN	O	CD open input
58	CD_CLOSE	O	CD close input
59	PCNT	O	Power control output
60	REM_STBY	I	Remote standby
61	AI_JOG1	I	AI JOG input 1

Pin No.	Mark	I/O	Function
62	AI_JOG2	I	AI JOG input 2
63	EDATA	I/O	EEPROM data
64	ECLK	O	EEPROM clock
65	ECS	O	EEPROM chip select
66	UNUSED	I	Connect to GND
67	CD_LCLOSE	O	CD CLOSE SLOW
68	CD_LOPEN	O	CD OPEN SLOW
69	SV	O	Sound virtualizer
70	SEG31	I	Connect to GND
71~100	SEG30~SEG1	O	LCD segment drive output

15 Wiring Connection Diagram

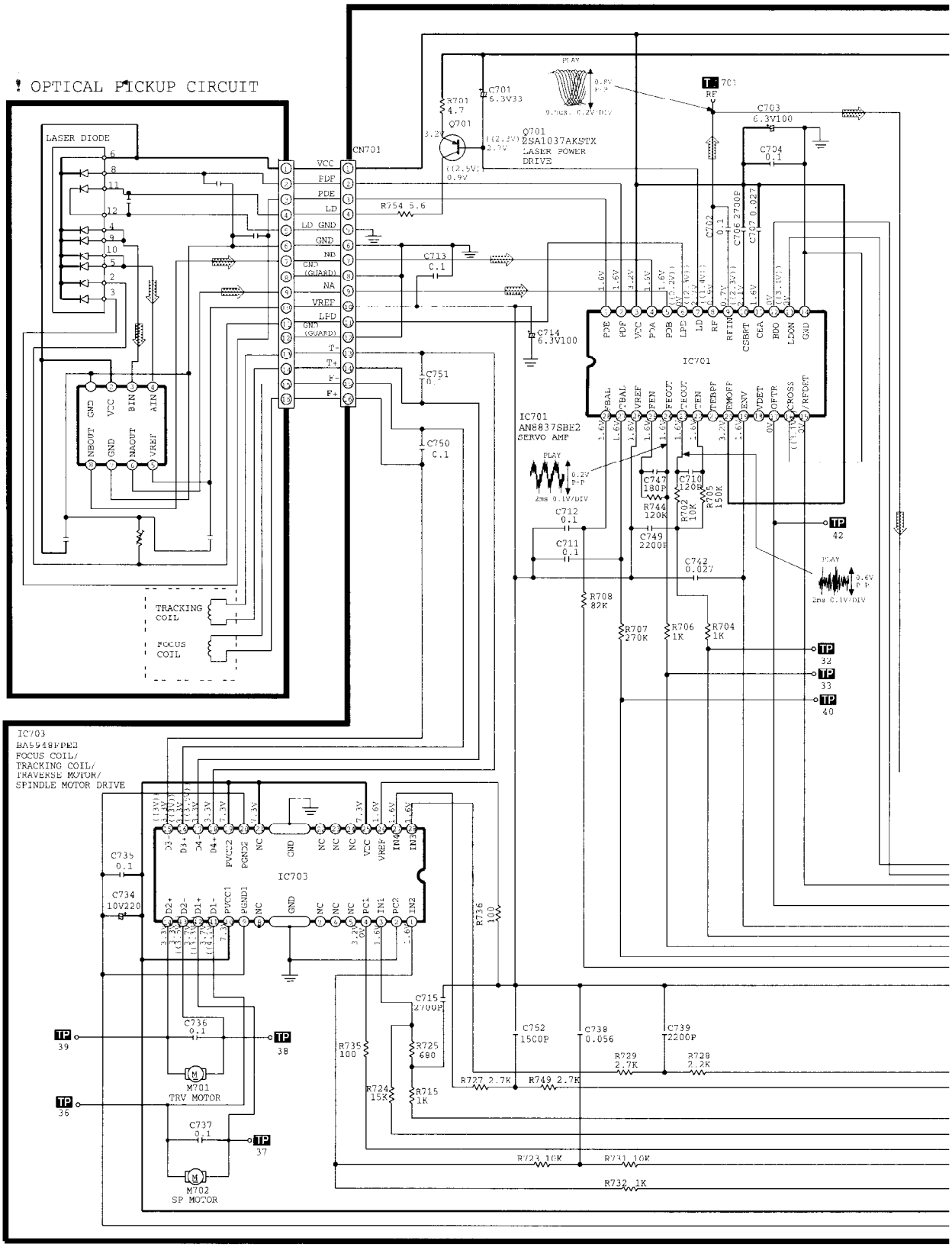


SCHEMATIC DIAGRAM-1

B CD SERVO CIRCUIT

: + B Line : CD Signal Line

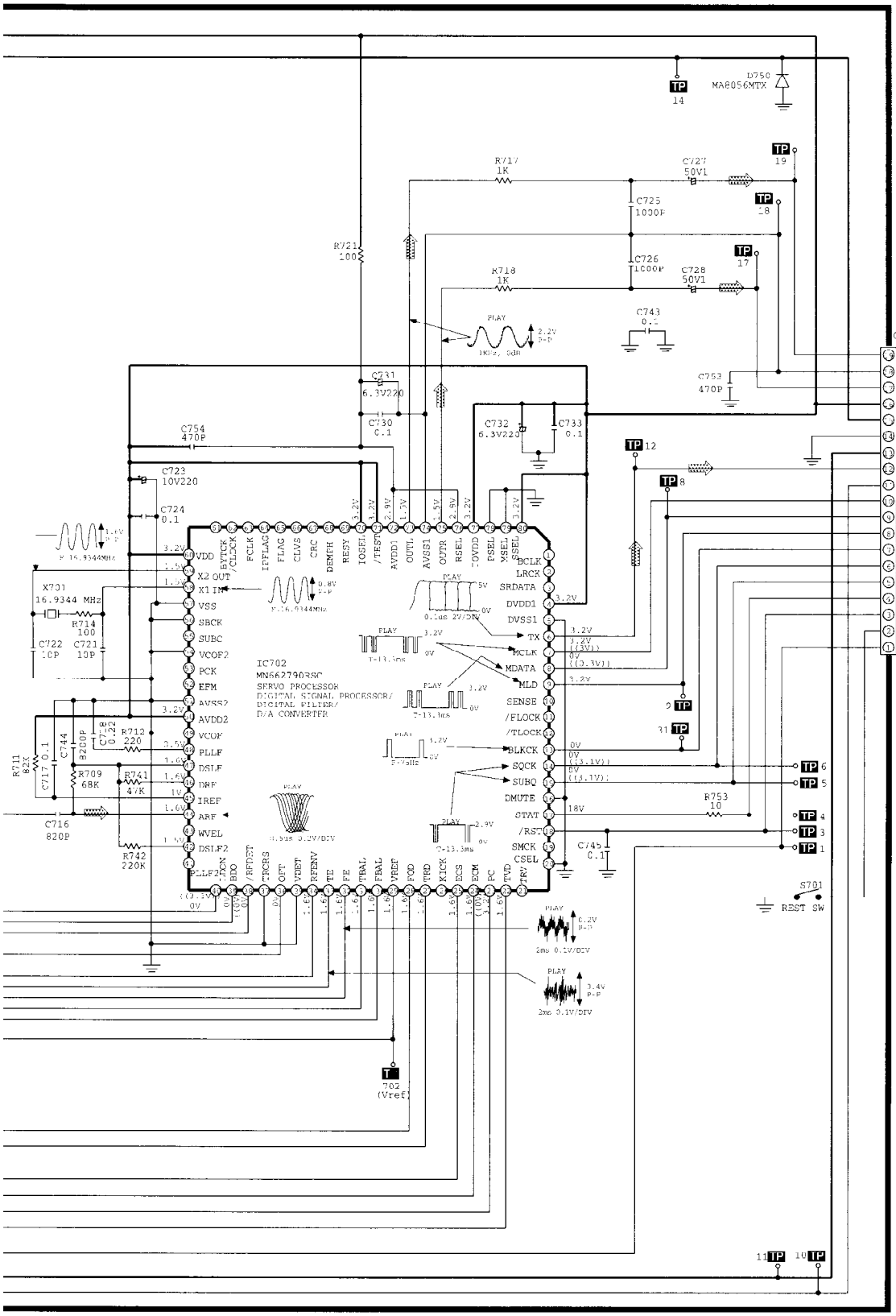
! OPTICAL PICKUP CIRCUIT



SCHEMATIC DIAGRAM-2

: + B Line

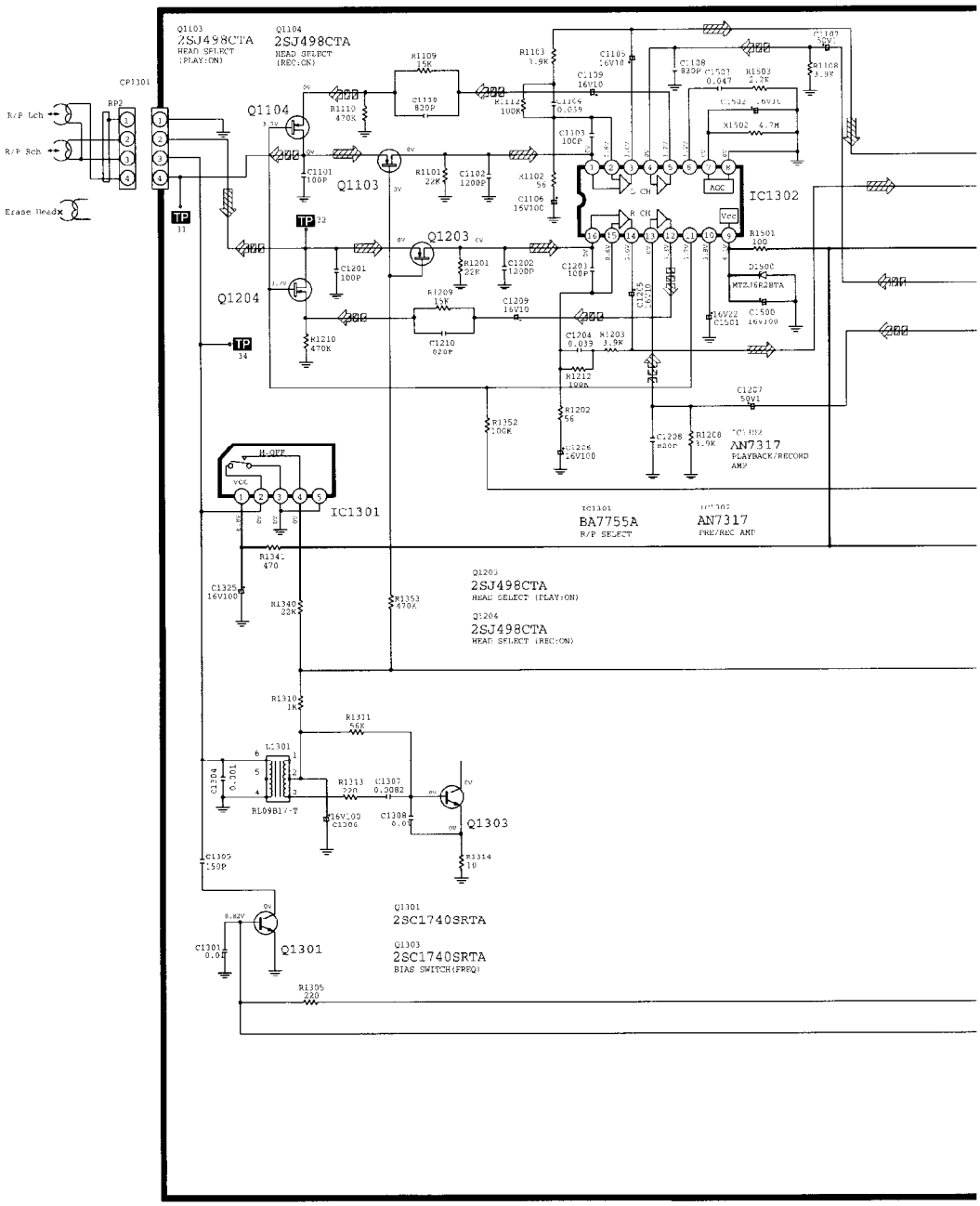
: CD Signal Line



SCHEMATIC DIAGRAM-3

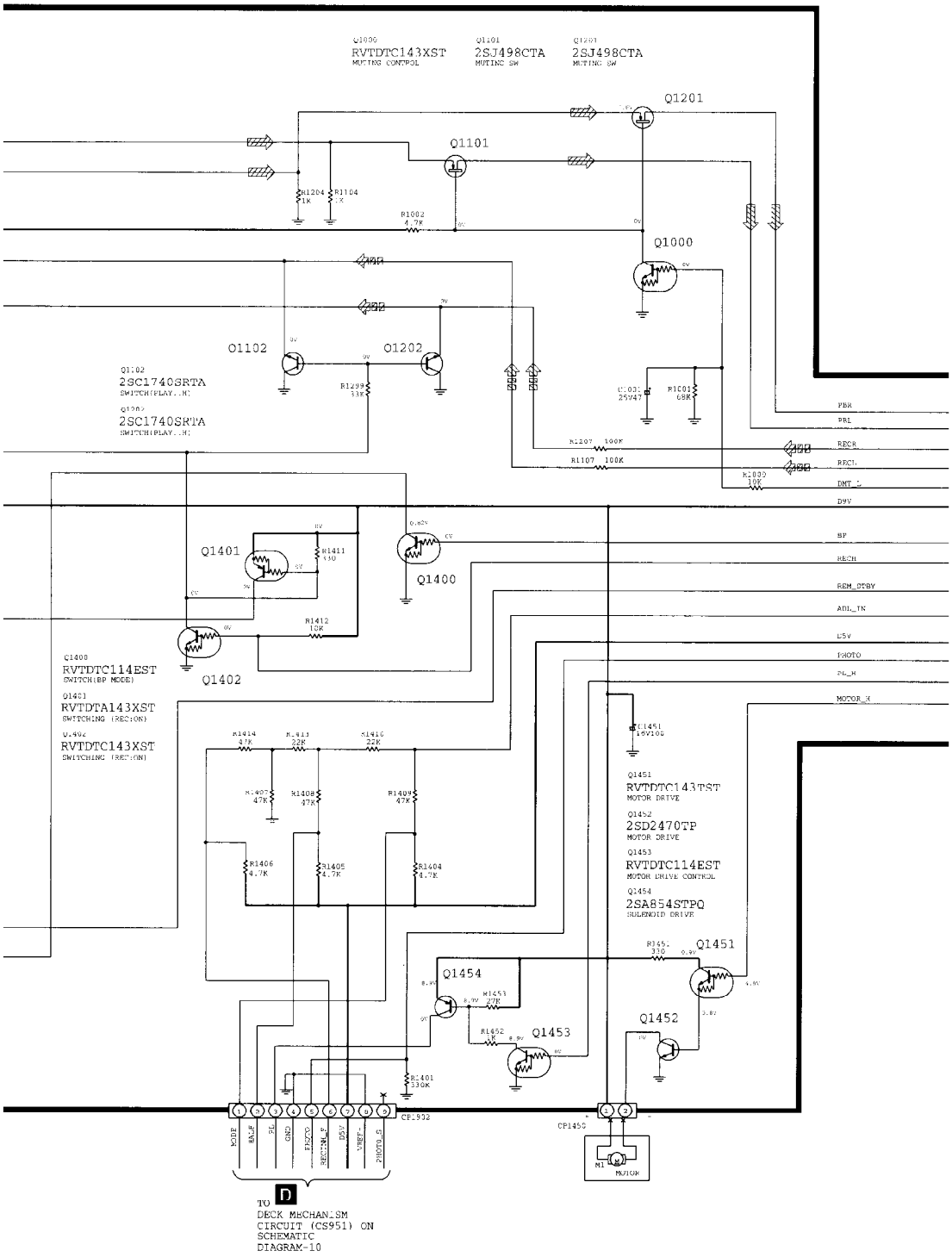
: +B line : Playback Signal : Record Signal Line

B MAIN CIRCUIT



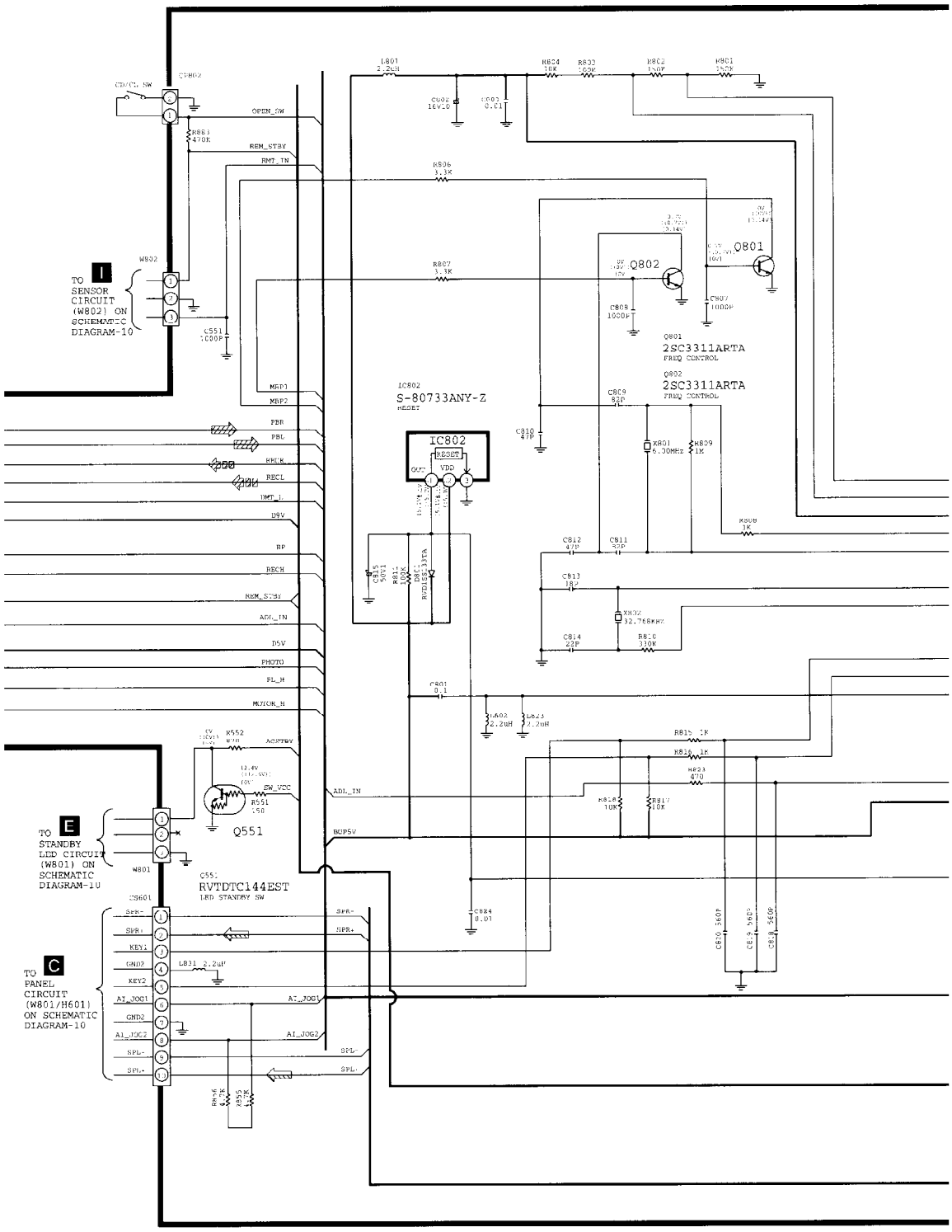
SCHEMATIC DIAGRAM-4

: +B line : Playback Signal : Record Signal Line



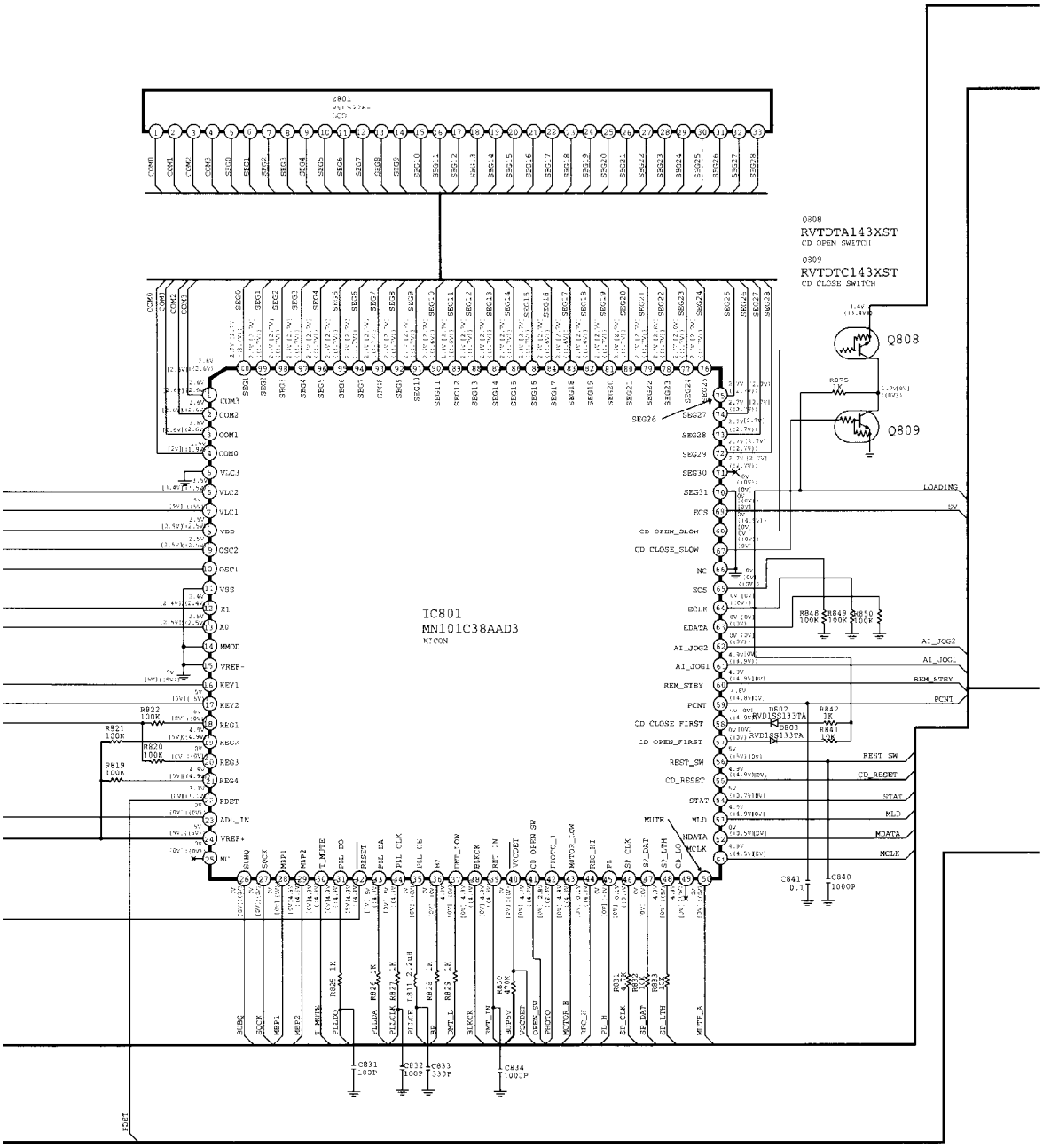
SCHEMATIC DIAGRAM-5

: +B line : Main Signal Line : Playback Signal Line : Rec Signal Line



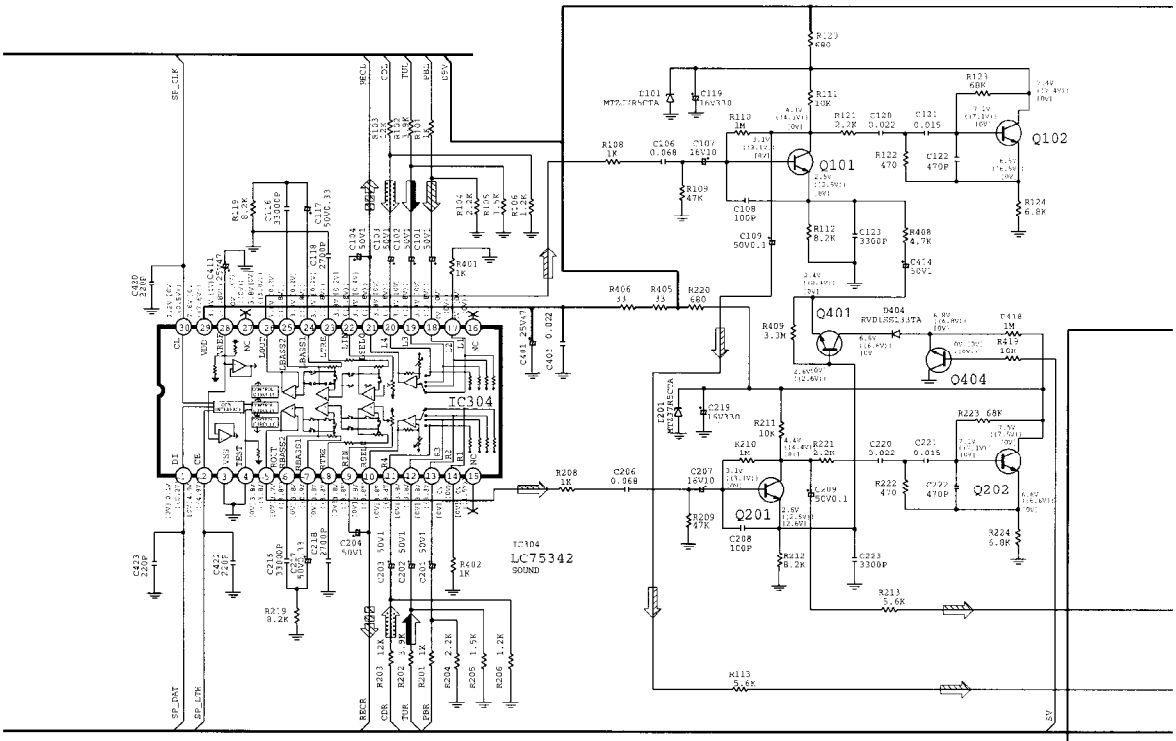
SCHEMATIC DIAGRAM-6

: +B line

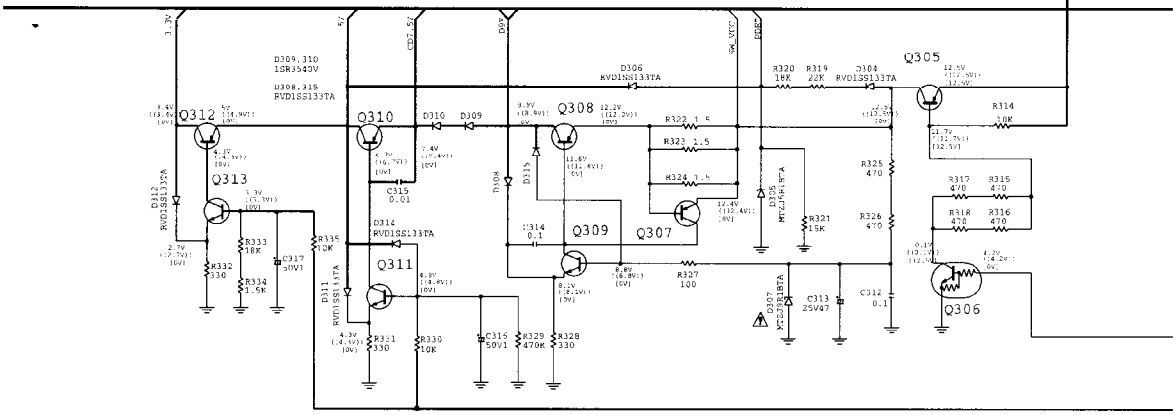


SCHEMATIC DIAGRAM-7

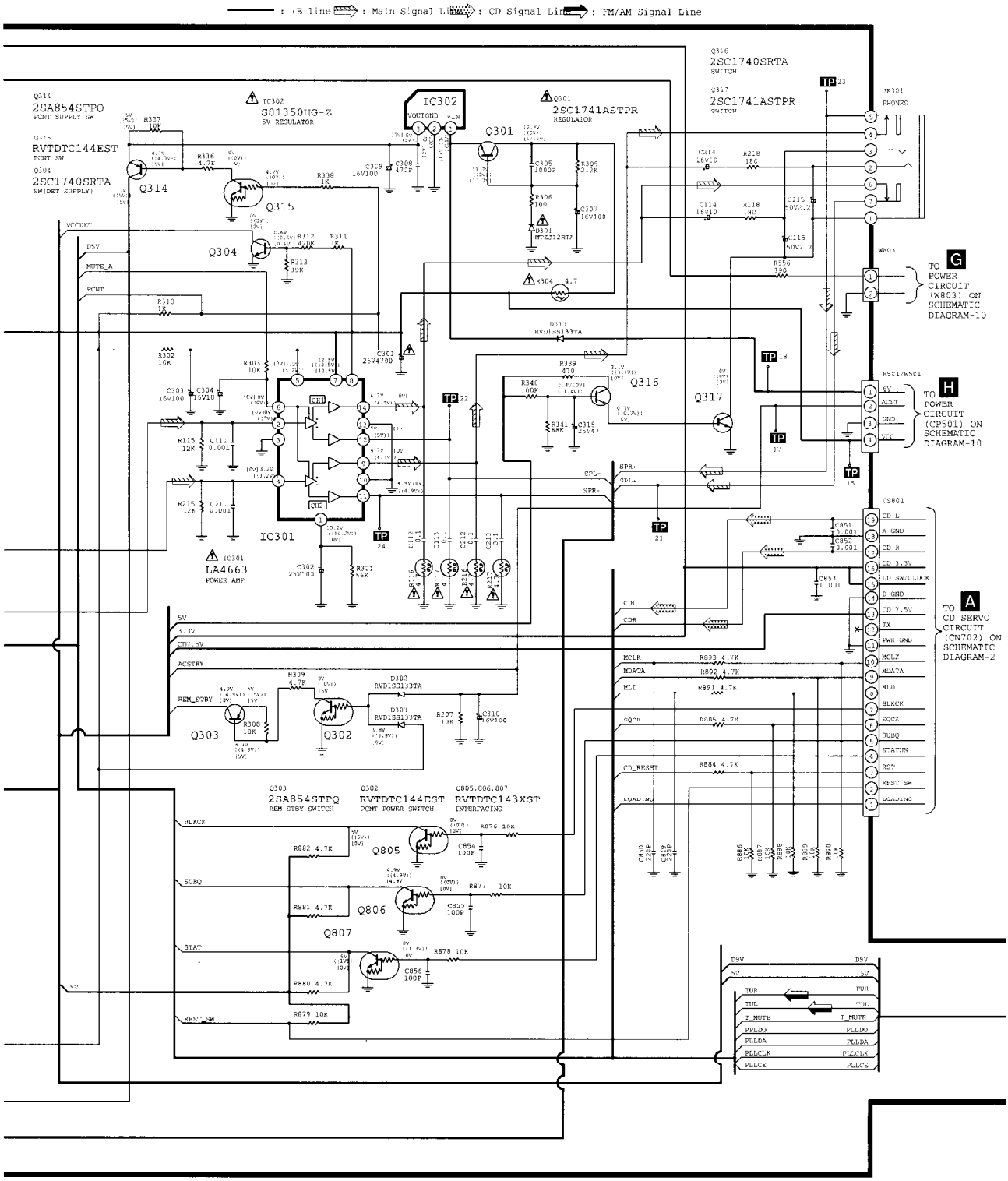
: +B line : Main Signal Line : CD Signal Line : Rec Signal Line : FM/AM Signal Line



Q312 2SA1515STPQ SUPPLY SWITCH	Q309 2SC1740SRTA REGULATOR	Q307 2SA933SSTA POWER SUPPLY	Q305 2SB1240RTV2 SUPPLY SWITCH	Q401 2SJ400CTA SWITCHING	Q101,102,201,202 2SC1740JLNRT SOUND VIRTUALIZER
Q313 2SC1740SRTA STABILISER	Q311 2SC1740SRTA STABILISER	Q310 2SA1515STPQ SUPPLY SWITCH	Q308 2SB1566E CURRENT LIMITER	Q306 RVTDTC114YST PCNT SWITCH	Q404 2SC1740SRTA SWITCHING

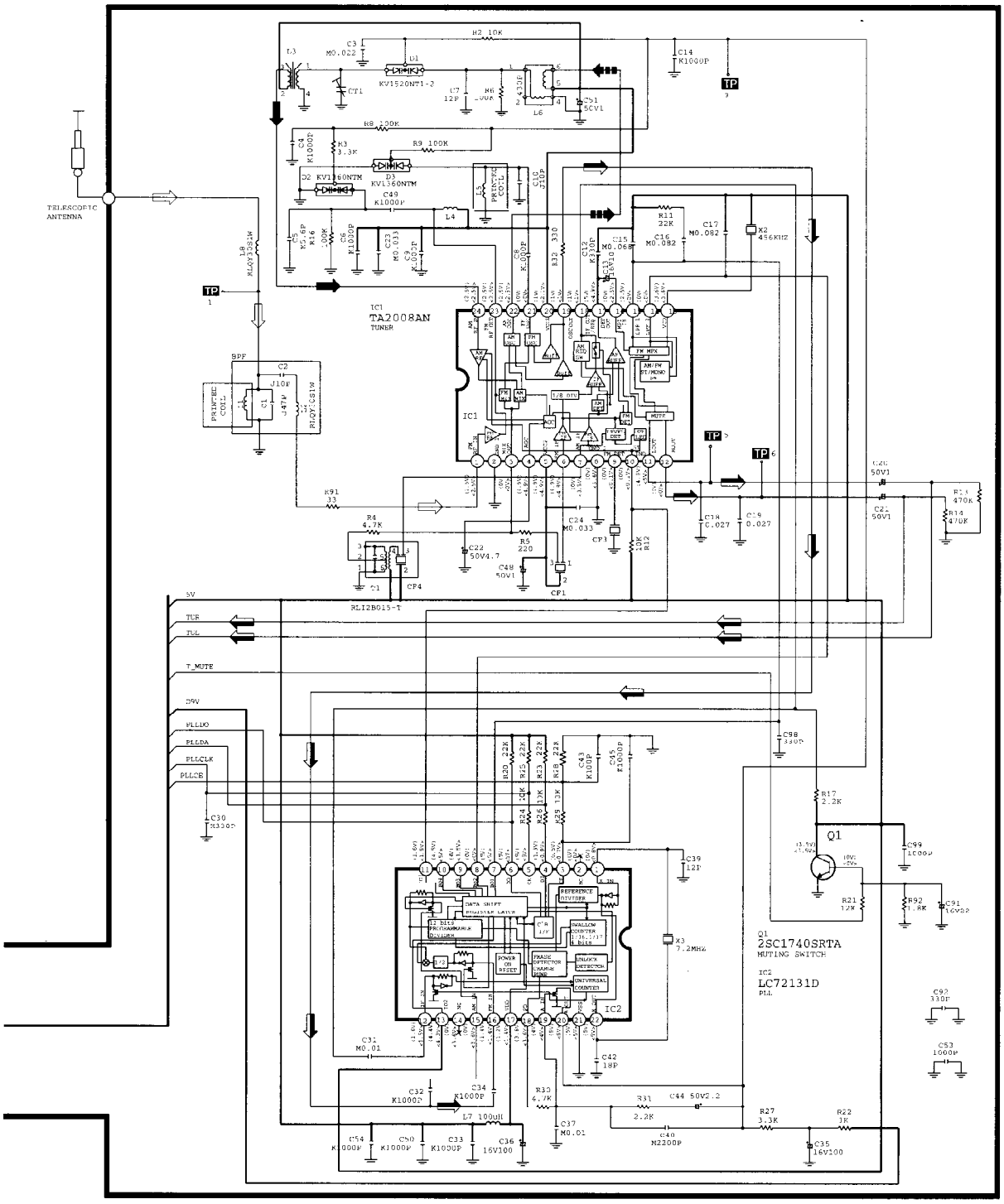


SCHEMATIC DIAGRAM-8



SCHEMATIC DIAGRAM-9

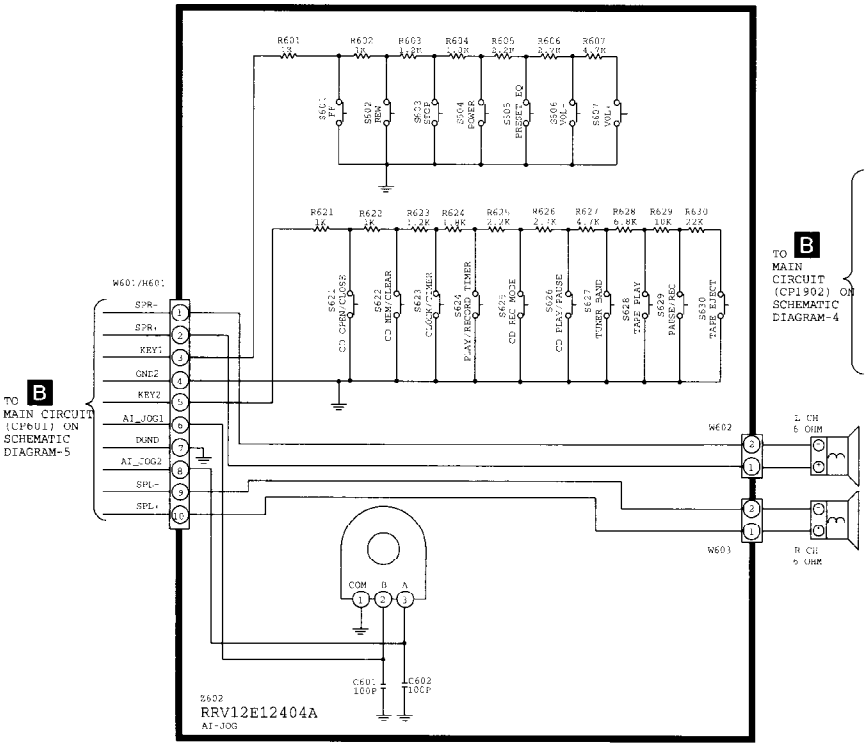
: +B line :OSC Signal Line :SAM Signal Line FM/AM Signal Line : FM Signal Line



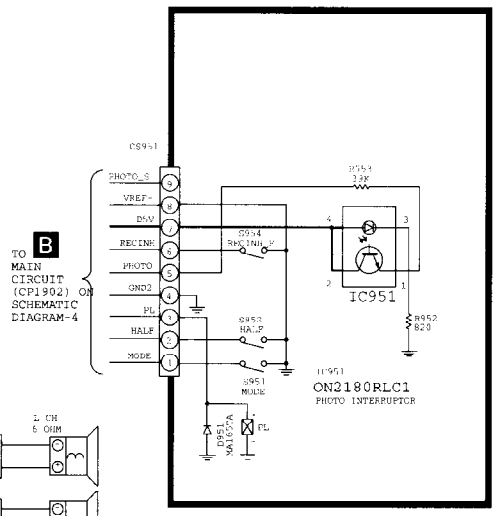
SCHEMATIC DIAGRAM-10

——— : +B line

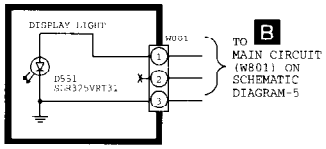
C PANEL CIRCUIT



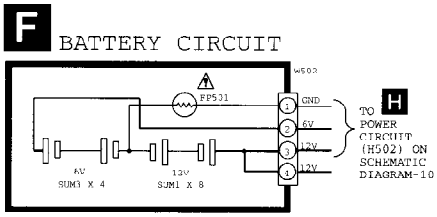
D DECK MECHANISM CIRCUIT



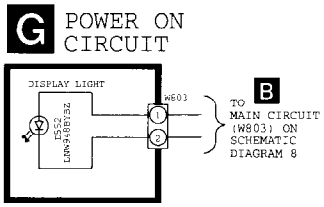
E STANDBY LED CIRCUIT



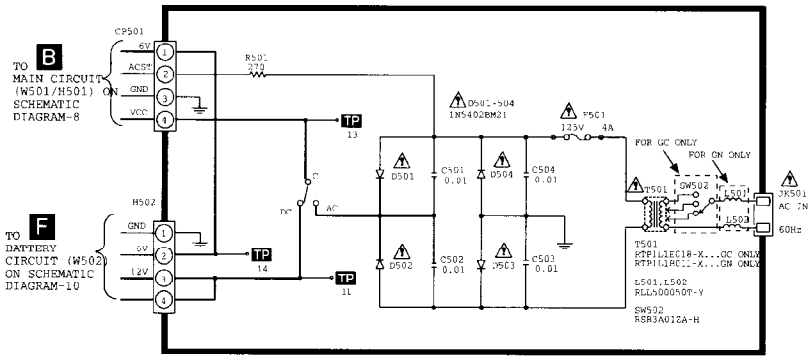
F BATTERY CIRCUIT

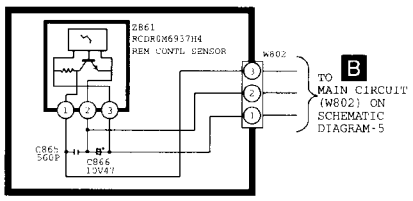


G POWER ON CIRCUIT



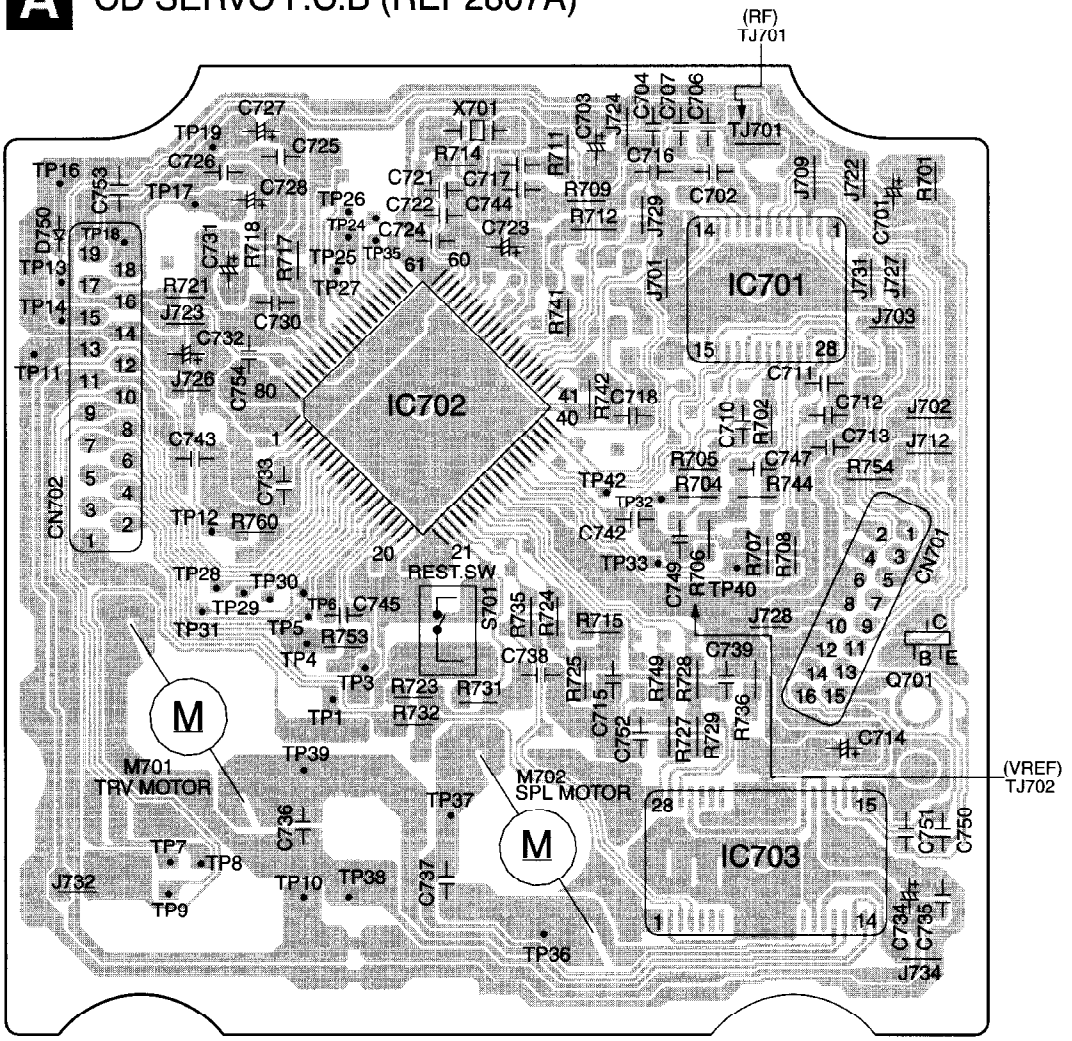
H POWER CIRCUIT





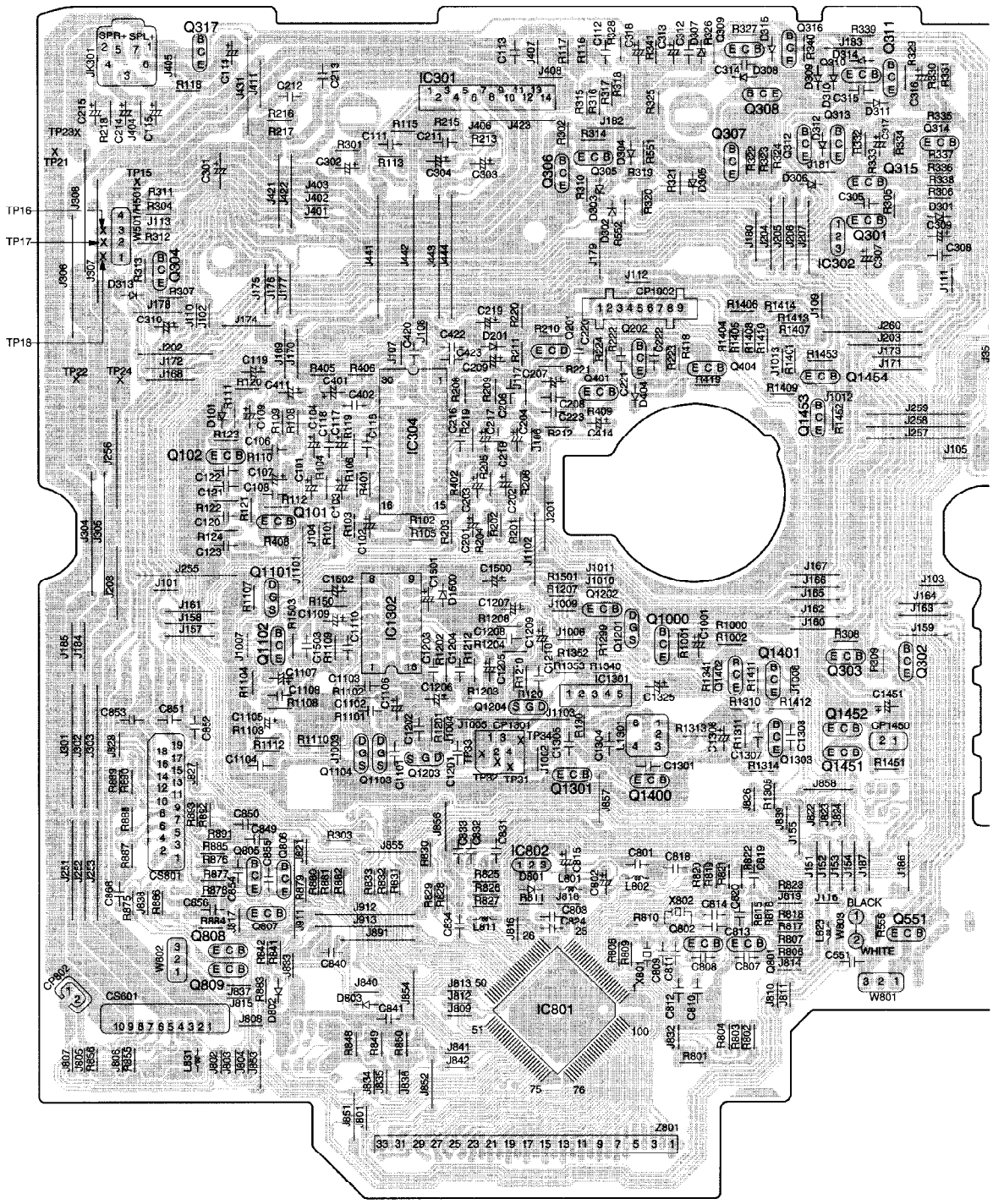
I SENSOR CIRCUIT

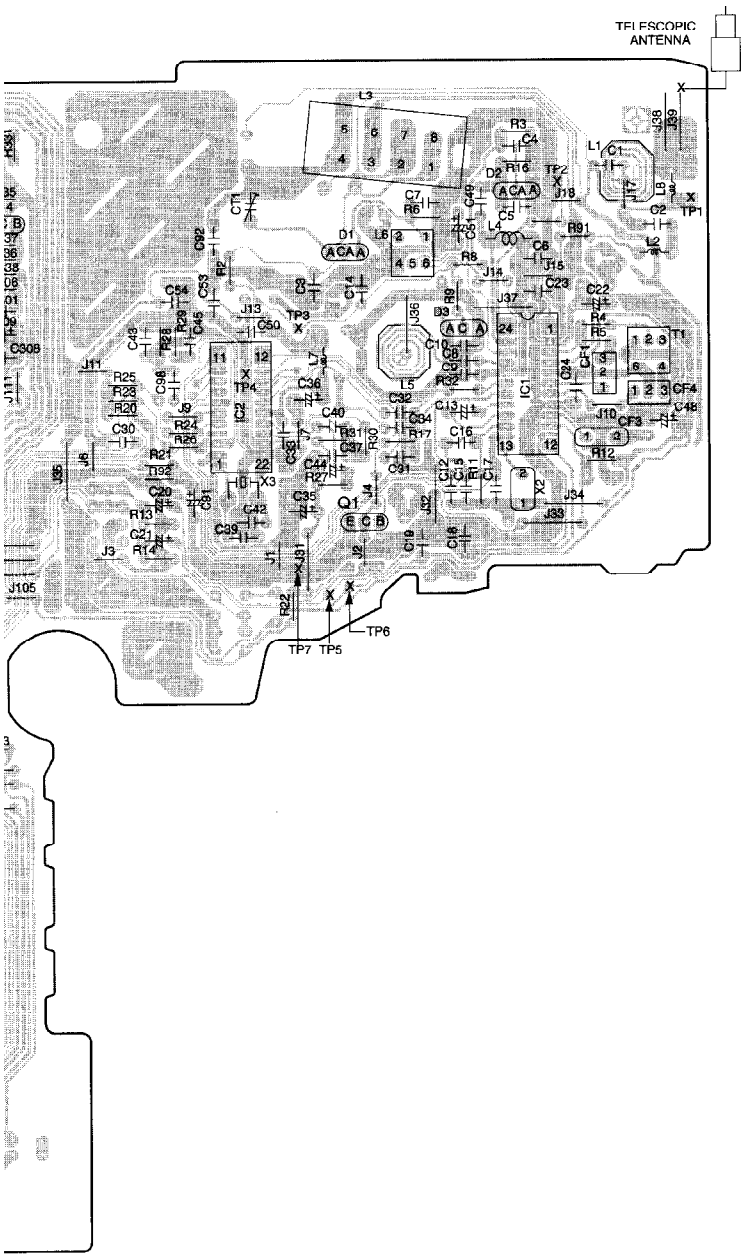
A CD SERVO P.C.B (REP2807A)



B MAIN P.C.B (REPX0194D...GC)

SPEAKERS



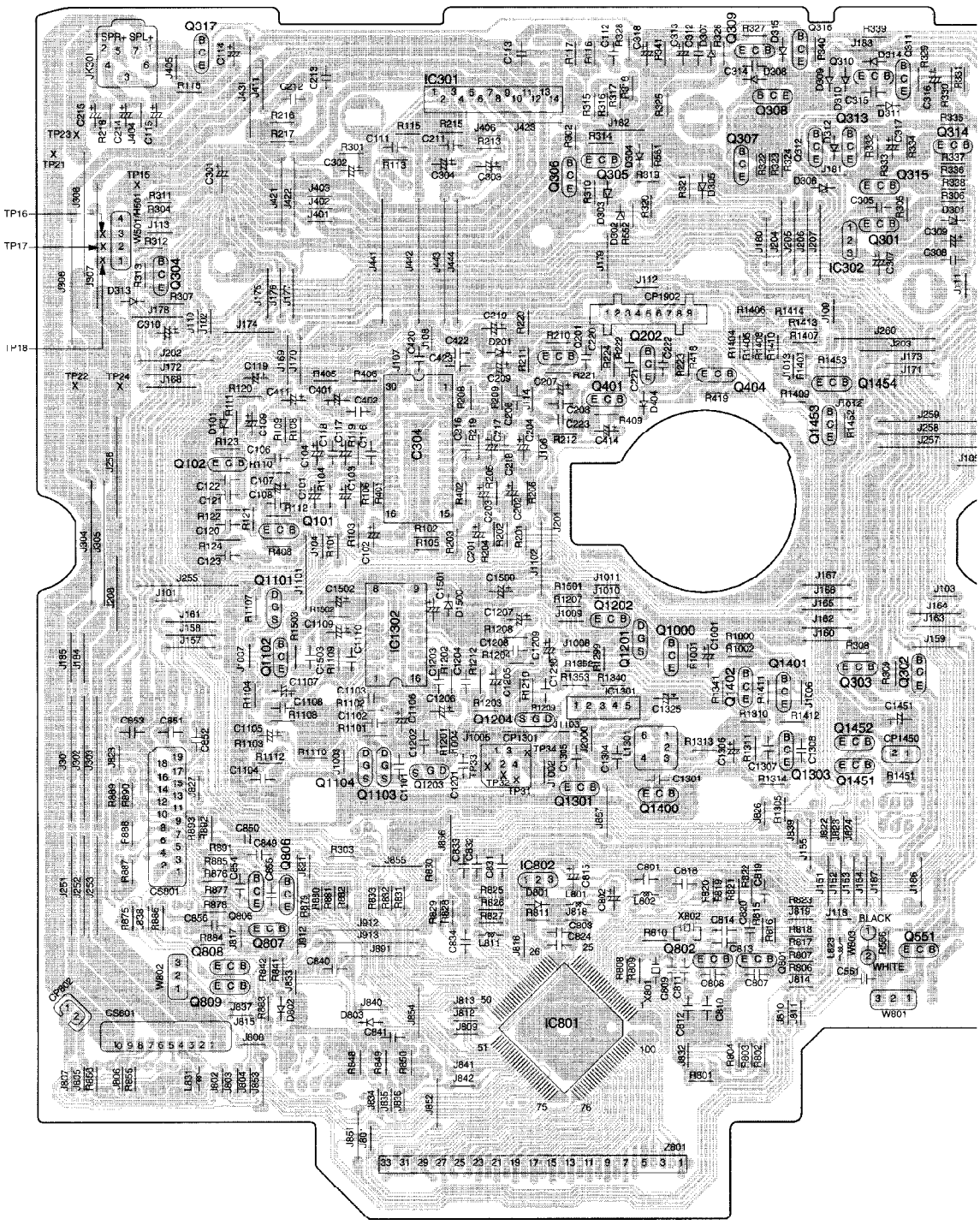


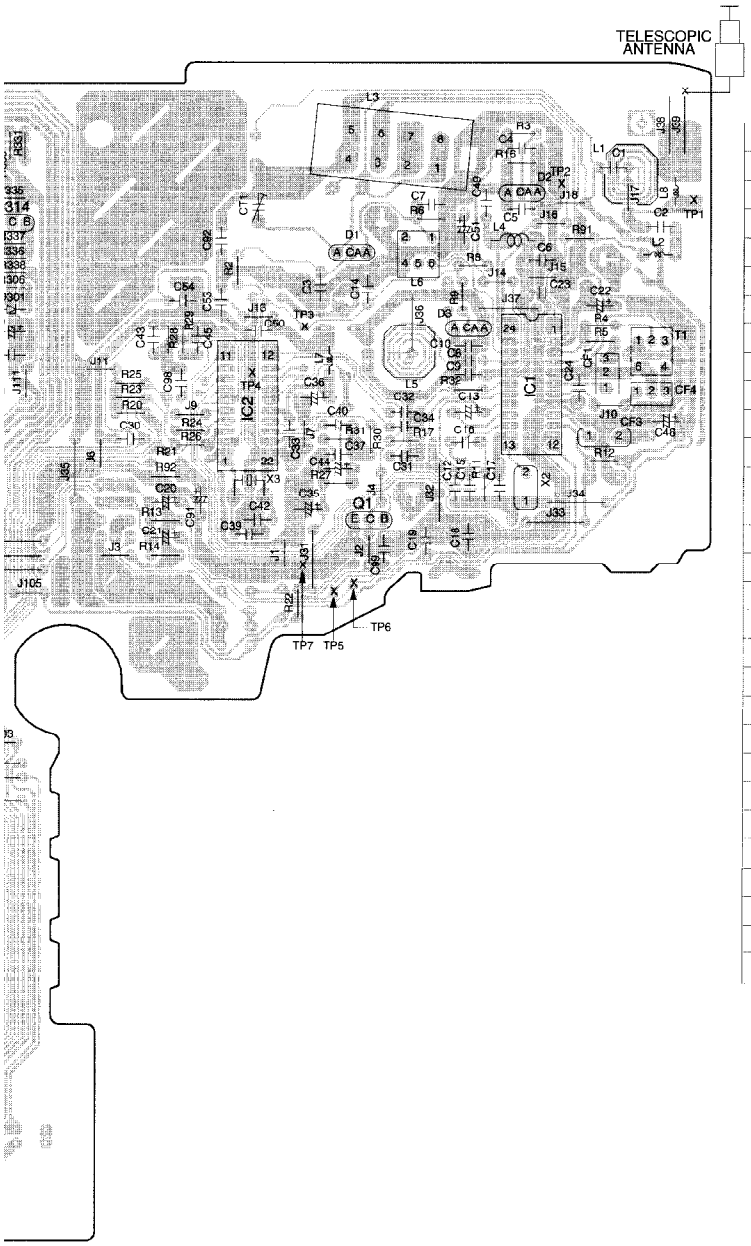
Ref. No.	Loc. No.
Q1	I4
Q101	C5
Q102	C4
Q201	E4
Q202	E4
Q301	G3
Q302	G6
Q303	G6
Q304	B3
Q305	E2
Q306	E2
Q307	F2
Q308	F2
Q309	F2
Q310	G2
Q311	G2
Q312	F2
Q313	G2
Q314	G2
Q315	G2
Q316	F2
Q317	B2
Q401	E4
Q404	F4
Q551	G7
Q801	F8
Q802	F8
Q805	C7
Q806	C7

Ref.No.	Loc.No.
Q807	C7
Q808	C8
Q809	C8
Q1000	E6
Q1101	C5
Q1102	C6
Q1103	D6
Q1104	D6
Q1201	E5
Q1202	E5
Q1203	D6
Q1204	E6
Q1301	E6
Q1303	F6
Q1400	E6
Q1401	F6
Q1402	F6
Q1451	G6
Q1452	G6
Q1453	G4
Q1454	G4
IC1	K3
IC2	J3
IC301	D2
IC302	G3
IC304	D4
IC801	E8
IC802	E7
IC1301	E6
IC1302	D5

B MAIN P.C.B (REPX0194A...GN)

SPEAKERS

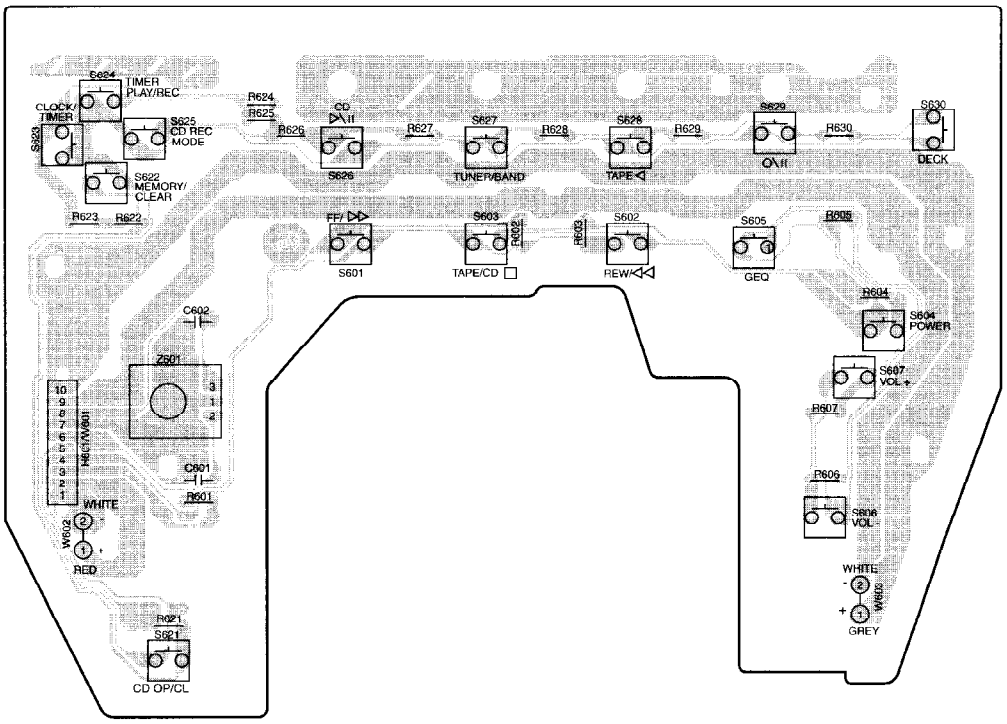




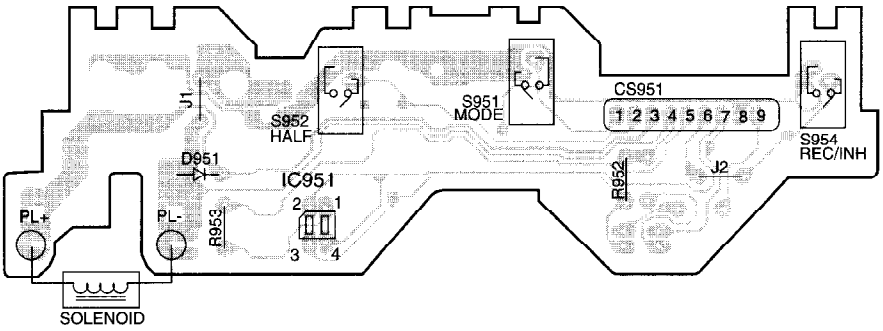
Ref. No.	Loc. No.
Q1	I4
Q101	C5
Q102	C4
Q201	E4
Q202	E4
Q301	G3
Q302	G6
Q303	G6
Q304	B3
Q305	E2
Q306	E2
Q307	F2
Q308	F2
Q309	F2
Q310	G2
Q311	G2
Q312	F2
Q313	G2
Q314	G2
Q315	G2
Q316	F2
Q317	B2
Q401	E4
Q404	F4
Q551	G7
Q801	F8
Q802	F8
Q805	C7
Q806	C7

Ref.No.	Loc.No.
Q807	C7
Q808	C8
Q809	C8
Q1000	E6
Q1101	C5
Q1102	C6
Q1103	D6
Q1104	D6
Q1201	E5
Q1202	E5
Q1203	D6
Q1204	E6
Q1301	E6
Q1303	F6
Q1400	E6
Q1401	F6
Q1402	F6
Q1451	G6
Q1452	G6
Q1453	G4
Q1454	G4
IC1	K3
IC2	J3
IC301	D2
IC302	G3
IC304	D4
IC801	E8
IC802	E7
IC1301	E6
IC1302	D5

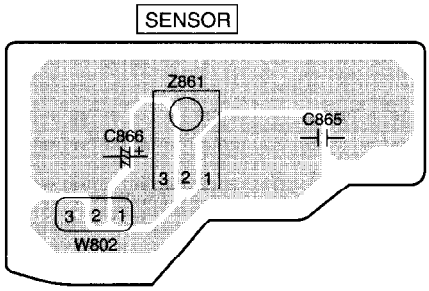
C PANEL P.C.B (REPX0195A)



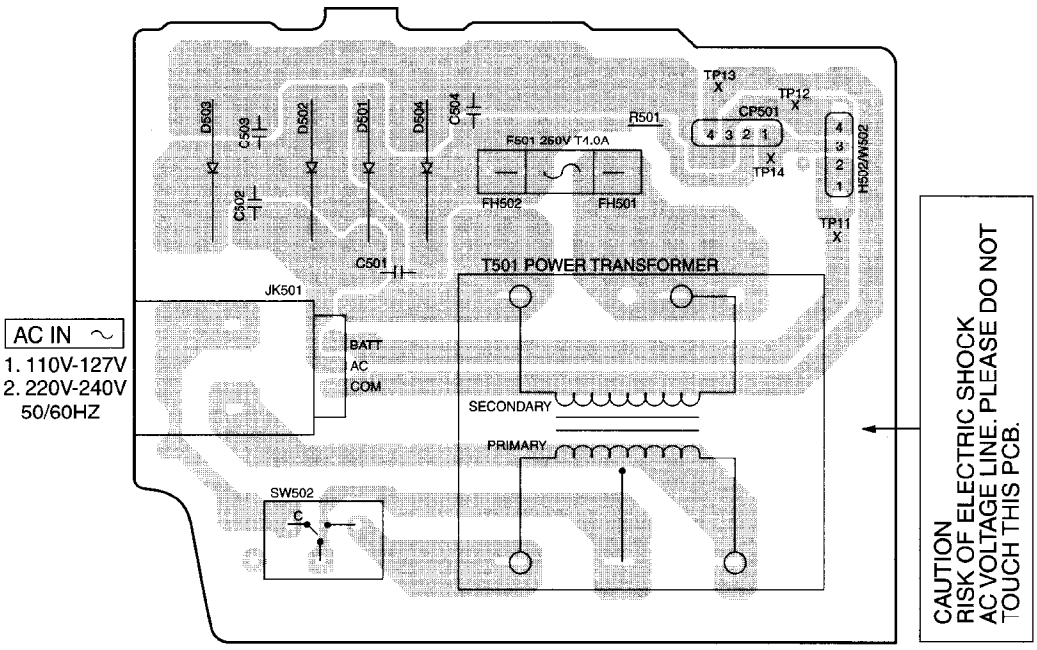
D DECK MECHANISM P.C.B (REPX0108E)



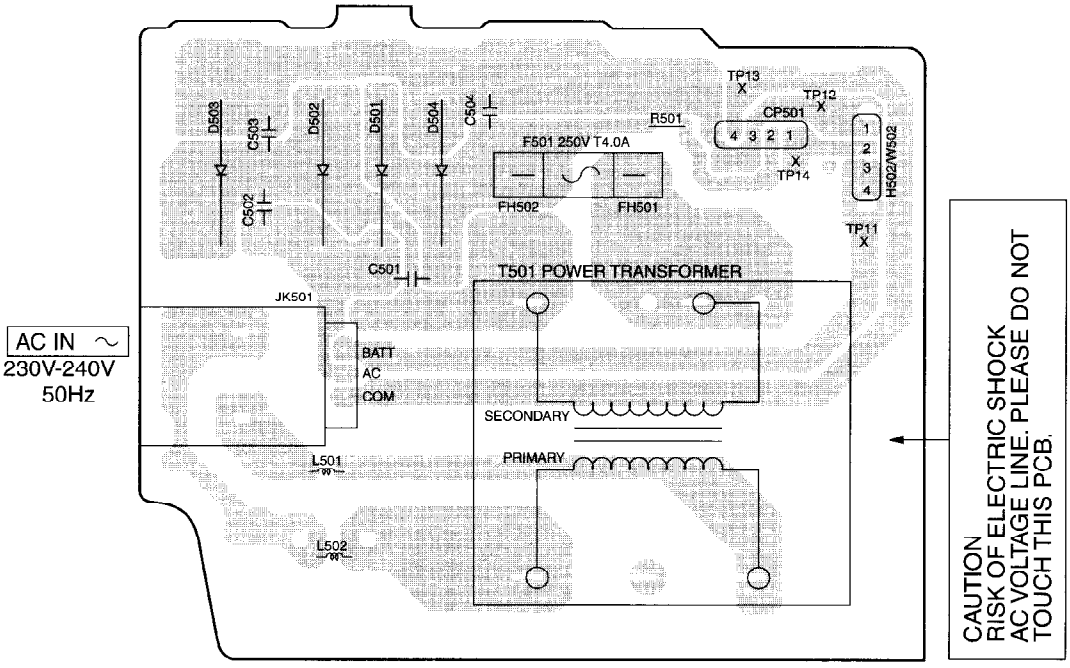
I SENSOR P.C.B (REPX0194D/A...GC/GN)



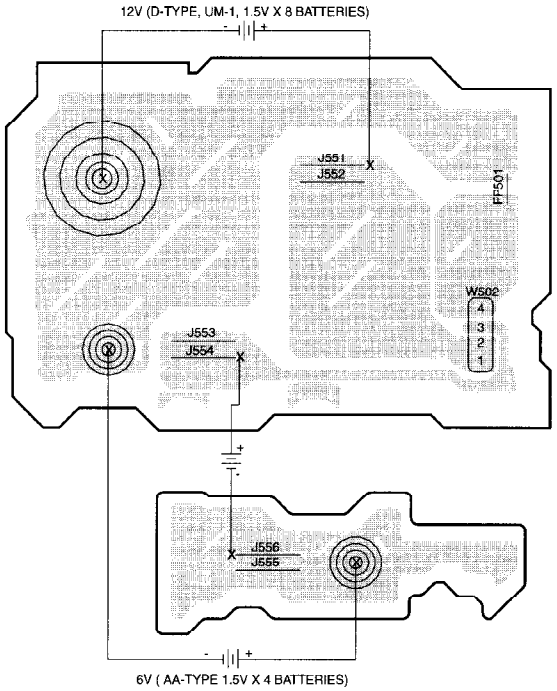
H POWER P.C.B (REPX0194D...GC)

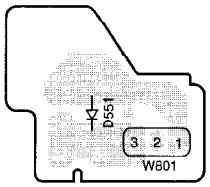


H POWER P.C.B (REPX0194A...GN)

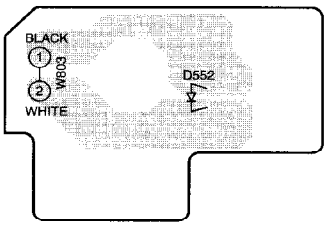


F BATTERY P.C.B REPX0194D/A...GC/GN)





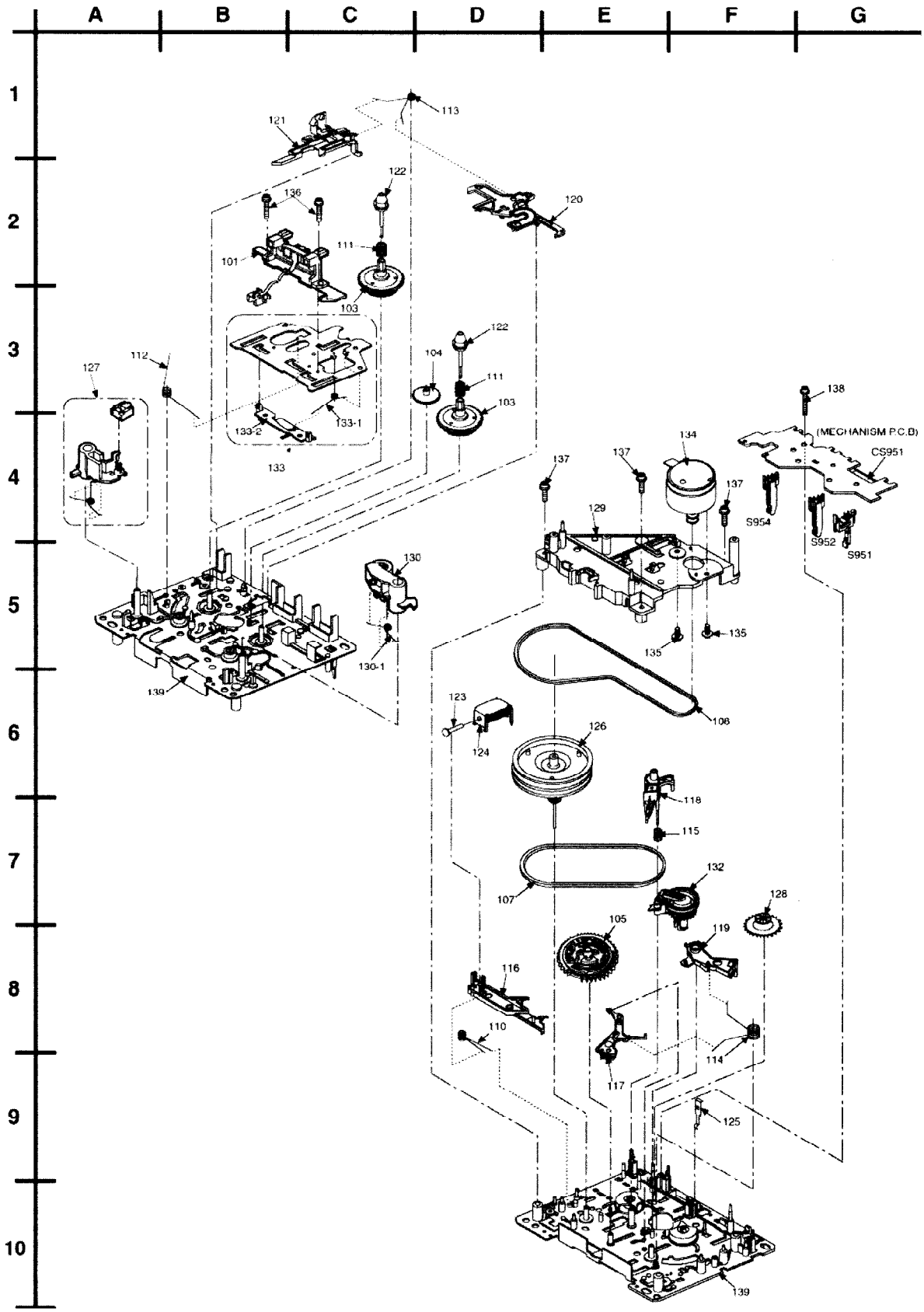
E STANDBY LED P.C.B (REPX0194D/A...GC/GN)



G POWER-ON P.C.B (REPX0194D/A...GC/GN)

19.1. Deck Mechanism (RAA4401)

19.1.1. Deck Mechanism Parts Location

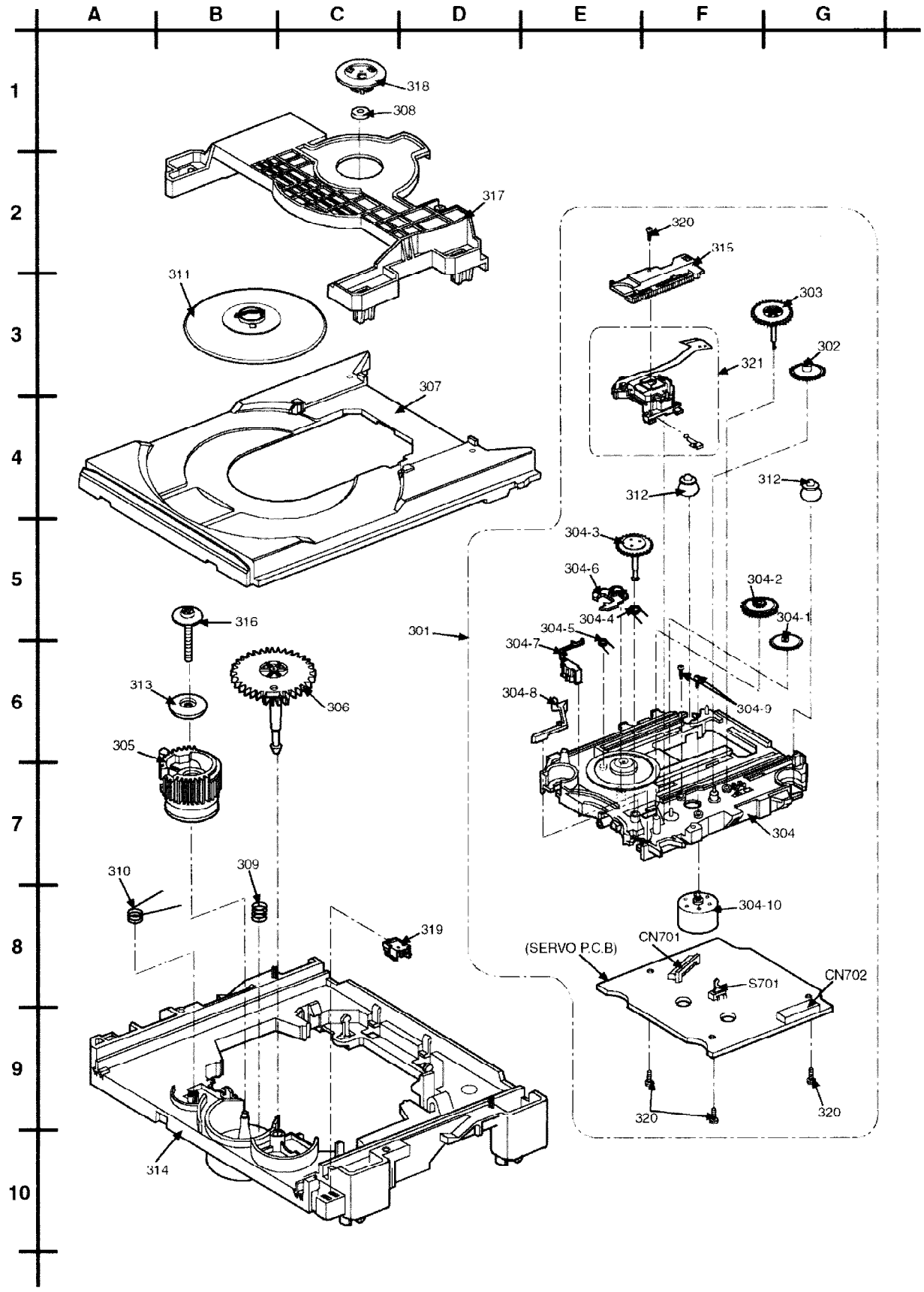


19.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0062	HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SP	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASSY	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL 'F' ASS'Y	[M]
127	RXL0151	E-HEAD ARM ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ARM 'F' ASS'Y	[M]
130-1	RMB0401	PINCH ARM SPRING 'F'	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412	HEAD PANEL ASS'Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	RFKPXES50GCK	CAP MOTOR ASS'Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RMK0294	MECHA CHASSIS	[M]

9.2. CD Loading Mechanism

9.2.1. CD Loading Mechanism Parts Location

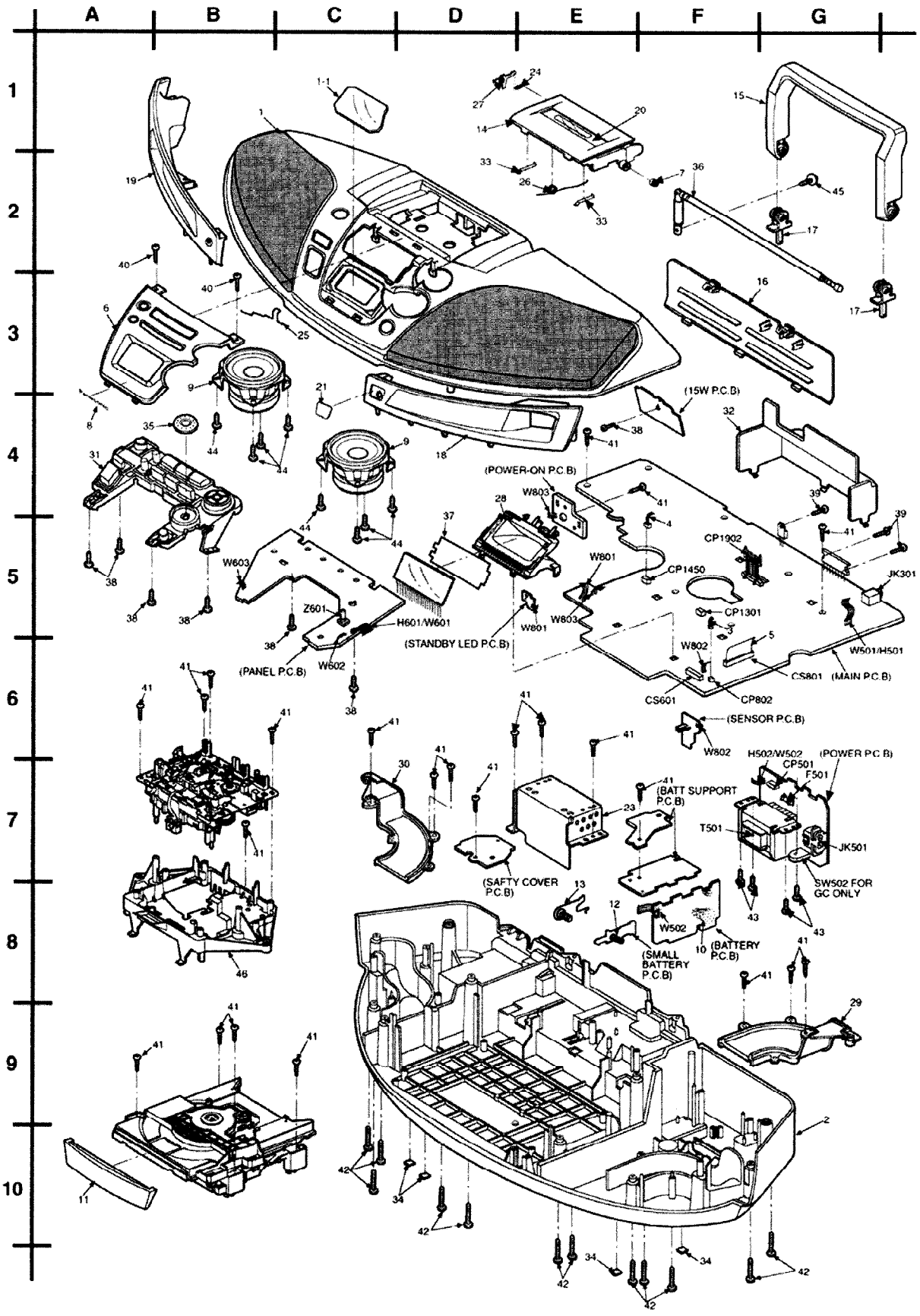


19.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RAE0155Z	CT100 TRV	[M]
302	RDG0455	TRV GEAR (A)	[M]
303	RDG0456	TRV GEAR (B)	[M]
304	RFKNCT100	TRAVERSE BASE ASS'Y	[M]
304-1	RDG0457	LOAD GEAR (A)	[M]
304-10	RXQ0632	TRV MOTOR UNIT	[M]
304-2	RDG0458	LOAD GEAR (B)	[M]
304-3	RDG0459	LOAD GEAR (C)	[M]
304-4	RME0290	PRESS SPRING	[M]
304-5	RME0291	LOCK SPRING	[M]
304-6	RML0551	TRG LEVER	[M]
304-7	RML0552	LOCK LEVER	[M]
304-8	RMM0219	STOPPER	[M]
304-9	XQN17+C28F	MOTOR SCREW	[M]
305	RDG0460	CAM GEAR	[M]
306	RDG0461	DRIVE GEAR	[M]
307	RGQ0254-K	TRAY	[M]
308	RHM0001	MAGNET	[M]
309	RMB0603	FLOATING SPRING	[M]
310	RME0288	CENTERING SPRING	[M]
311	RFKNXED50-S	CLAMPER HOLDER ASS'Y	[M]
312	RMG0510-K	FLOATING RUBBER (A)	[M]
313	RMG0511-K	FLOATING RUBBER (B)	[M]
314	RMK0422	MECHA CHASSIS	[M]
315	RMM0218	TRV DRIVE RACK	[M]
316	RHD30083	SCREW (CAM GEAR)	[M]
317	RMR1223-K	CLAMP PLATE	[M]
318	RMR1242-K	FIXED PLATE	[M]
319	RSH1A049-U	OPEN SWITCH	[M]
320	XTN2+6G	SCREW	[M]
321	RXQ0633	OPU UNIT	[M]

19.3. Cabinet

19.3.1. Cabinet Parts Location



19.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RFKKXES25EBS	UPPER CAB ASS'Y	[M]
1-1	RKWX0140-Q	LCD PANEL	[M]
2	RFKJXES25GCS	BOTTOM CAB ASS'Y	[M]GC
2	RFKJXES25GNS	BOTTOM CAB ASS'Y	[M]GN
3	REX0980	CD CONT WIRE	[M]
4	REXX0212	MOTOR WIRE	[M]
5	REEX0080	CD FFC	[M]
6	RGKX0052-S	FRONT PANEL	[M]
7	RDG0183-J	DAMPER GEAR	[M]
8	RGB0115-S	BADGE	[M]
9	RAS8P22-B	SPEAKER	[M]
10	RJC511XA	BATT. TERMINAL	[M]
11	RGKX0051-S	CD TRAY LID	[M]
12	RJC751YB	UM-3 BATT. (SPRING)	[M]
13	RJC91008-1	+- BATTERY TERMINAL	[M]
14	RKFX0080-S	CASS. HOLDER	[M]
15	RKHX0011-H	HANDLE	[M]
16	RKK0073-1H	BATTERY COVER	[M]
17	RKQ0224-K	HANDLE FIXTURE	[M]
18	RKTX0007-S	PORT (R)	[M]
19	RKTX0008-S	PORT (L)	[M]
20	RKWX0141-Q	CASS. PANEL	[M]
21	RKWX0142-Q	REMO-CON SENSOR PANEL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
23	RMAX0045A	TRANSFORMER BRACKET	[M]GC
23	RMAX0045-1	TRANSFORMER BRACKET	[M]GN
24	RMB0448-J	CASS. EJ. LEV. SPRING	[M]
25	RME0270	R. ANT TERMINAL	[M]
26	RMEX0010	CASSETTE OPEN SPRING	[M]
27	RMM0163-1	CASS. LOCK ROD	[M]
28	RMNX0031-W	LCD HOLDER	[M]
29	RMVX0048	PORT COVER (R)	[M]
30	RMVX0049	PORT COVER (L)	[M]
31	RYQX0031-S	CONTROL BUTTON ASSY	[M]
32	RMYX0041	HEAT SINK	[M]
33	RUS757ZAA	CASSETTE HALF SPRING	[M]
34	RKA0059-K	LEG RUBBER	[M]
35	RGWX0050-A	JOG KNOB	[M]
36	XEARR210C-Y	R.ANTENNA	[M]
37	RMXX0006	LCD SPACER SHEET	[M]
38	XTBS26+10J	SCREW	[M]
39	XTV3+10F	SCREW (HEAT SINK)	[M]
40	XTB3+12CFN	SCREW	[M]
41	XTV3+12G	SP. MOUNTING SCREW	[M]
42	XTV3+20G	CASING SCREW	[M]
43	XTV3+6F	SCREW	[M]
44	XTV3+10G	SCREW (SPEAKER)	[M]
45	XYN3+F12FY	R.ANT SCREW	[M]
46	RMKX0037	MECHA CHASSIS	[M]

19.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	REP2807A	CD SERVO P.C.B.	[M]
	REPX0194D	MAIN P.C.B./ POWER P.C.B./ BATTERY P.C.B./ STANDBY LED P.C.B./ POWER-ON P.C.B./ SENSOR P.C.B.	[M]GC
	REPX0194A	MAIN P.C.B./ POWER P.C.B./ BATTERY P.C.B./ STANDBY LED P.C.B./ POWER-ON P.C.B./ SENSOR P.C.B.	[M]GN
	REPX0195A	PANEL P.C.B.	[M]
	REPX0108E	DECK MECHANISM P.C.B.	[M]
		INTEGRATED CIRCUITS	
IC1	TA2008AN	IC TUNER	[M]
IC2	LC72131D	IC PLL	[M]
IC301	LA4663	IC POWER	[M] ⚠
IC302	S81350HG-Z	IC 5V REGULATOR	[M] ⚠
IC304	LC75342	IC SOUND	[M]
IC701	AN8839NSBE2	IC RF HEAD AMP	[M]
IC702	MN662790RSC	IC LSI	[M]
IC703	BA5948FPE2	IC 4 CHANNEL DRIVE	[M]
IC801	MN101C38AAD3	IC MICON	[M]
IC802	S-80733ANY-Z	IC RESET	[M]
IC951	ON2180RLC1	IC PHOTO INTERUPTOR	[M]
IC1301	BA7755A	IC SW	[M]
IC1302	AN7317	IC P/R AMP	[M]
		TRANSISTORS	
Q1	2SC1740SRTA	TRANSISTOR	[M]
Q101	2SC1740SLNRT	TRANSISTOR	[M]
Q102	2SC1740SLNRT	TRANSISTOR	[M]
Q201	2SC1740SLNRT	TRANSISTOR	[M]
Q202	2SC1740SLNRT	TRANSISTOR	[M]
Q301	2SC1741ASTPR	TRANSISTOR	[M] ⚠
Q302	RVTDTC144EST	TRANSISTOR	[M]
Q303	2SA854STPQ	TRANSISTOR	[M]
Q304	2SC1740SRTA	TRANSISTOR	[M]
Q305	2SB1240RTV2	TRANSISTOR	[M]
Q306	RVTDTC114YST	TRANSISTOR	[M]
Q307	2SA933SSTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q308	2SB1566E	TRANSISTOR	[M]
Q309	2SC1740SRTA	TRANSISTOR	[M] ⚠
Q310	2SA1515STPQ	TRANSISTOR	[M]
Q311	2SC1740SRTA	TRANSISTOR	[M]
Q312	2SA1515STPQ	TRANSISTOR	[M]
Q313	2SC1740SRTA	TRANSISTOR	[M]
Q314	2SA854STPQ	TRANSISTOR	[M]
Q315	RVTDTC144EST	TRANSISTOR	[M]
Q316	2SC1740SRTA	TRANSISTOR	[M]
Q317	2SC1741ASTPR	TRANSISTOR	[M]
Q401	2SJ498CTA	TRANSISTOR	[M]
Q404	2SC1740SRTA	TRANSISTOR	[M]
Q551	RVTDTC144EST	TRANSISTOR	[M]
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q801	2SC3311ARTA	TRANSISTOR	[M]
Q802	2SC3311ARTA	TRANSISTOR	[M]
Q805	RVTDTC143XST	TRANSISTOR	[M]
Q806	RVTDTC143XST	TRANSISTOR	[M]
Q807	RVTDTC143XST	TRANSISTOR	[M]
Q808	RVTDTA143XST	TRANSISTOR	[M]
Q809	RVTDTC143XST	TRANSISTOR	[M]
Q1000	RVTDTC143XST	TRANSISTOR	[M]
Q1101	2SJ498CTA	TRANSISTOR	[M]
Q1102	2SC1740SRTA	TRANSISTOR	[M]
Q1103	2SJ498CTA	TRANSISTOR	[M]
Q1104	2SJ498CTA	TRANSISTOR	[M]
Q1201	2SJ498CTA	TRANSISTOR	[M]
Q1202	2SC1740SRTA	TRANSISTOR	[M]
Q1203	2SJ498CTA	TRANSISTOR	[M]
Q1204	2SJ498CTA	TRANSISTOR	[M]
Q1301	2SC1740SRTA	TRANSISTOR	[M]
Q1303	2SC1740SRTA	TRANSISTOR	[M]
Q1400	RVTDTC114EST	TRANSISTOR	[M]
Q1401	RVTDTA143XST	TRANSISTOR	[M]
Q1402	RVTDTC143XST	TRANSISTOR	[M]
Q1451	RVTDTC143TST	TRANSISTOR	[M]
Q1452	2SD2470TP	TRANSISTOR	[M]
Q1453	RVTDTC114EST	TRANSISTOR	[M]
Q1454	2SA854STPQ	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		DIODES	
D1	KV1520NT1-2	DIODE	[M]
D2	KV1360NTM	DIODE	[M]
D3	KV1360NTM	DIODE	[M]
D101	MTZJ7R5CTA	DIODE	[M]
D201	MTZJ7R5CTA	DIODE	[M]
D301	MTZJ12BTA	DIODE	[M]
D302	RVD1SS133TA	DIODE	[M]
D303	RVD1SS133TA	DIODE	[M]
D304	RVD1SS133TA	DIODE	[M]
D305	MTZJ5R1BTA	DIODE	[M]
D306	RVD1SS133TA	DIODE	[M]
D307	MTZJ9R1BTA	DIODE	[M] ⚠
D308	RVD1SS133TA	DIODE	[M]
D309	1SR35400V	DIODE	[M]
D310	1SR35400V	DIODE	[M]
D311	RVD1SS133TA	DIODE	[M]
D312	RVD1SS133TA	DIODE	[M]
D313	RVD1SS133TA	DIODE	[M]
D314	RVD1SS133TA	DIODE	[M]
D315	RVD1SS133TA	DIODE	[M]
D404	RVD1SS133TA	DIODE	[M]
D501	1N5402BM21	DIODE	[M] ⚠
D502	1N5402BM21	DIODE	[M] ⚠
D503	1N5402BM21	DIODE	[M] ⚠
D504	1N5402BM21	DIODE	[M] ⚠
D551	SLR325VRT31	DIODE	[M]
D552	LNW9A8BYBZ	DIODE	[M]
D750	MA8056MTX	DIODE	[M]
D801	RVD1SS133TA	DIODE	[M]
D802	RVD1SS133TA	DIODE	[M]
D803	RVD1SS133TA	DIODE	[M]
D951	MA165TA	DIODE	[M]
D1500	MTZJ6R2BTA	DIODE	[M]
		SWITCHES	
S601	EVQ21405R	SW FF/FORWARDS	[M]
S602	EVQ21405R	SW REW/REVERSE	[M]
S603	EVQ21405R	SW TAPE/CD STOP	[M]
S604	EVQ21405R	SW POWER	[M]
S605	EVQ21405R	SW GEQ (PRESET EQ)	[M]
S606	EVQ21405R	SW VOLUME -	[M]
S607	EVQ21405R	SW VOLUME +	[M]
S621	EVQ21405R	SW CD OPEN/CLOSE	[M]
S622	EVQ21405R	SW MEMORY/CLEAR	[M]
S623	EVQ21405R	SW CLOCK/TIMER	[M]
S624	EVQ21405R	SW TIMER PLAY/REC	[M]
S625	EVQ21405R	SW CD REC MODE	[M]
S626	EVQ21405R	SW CD PLAY/PAUSE	[M]
S627	EVQ21405R	SW TUNER BAND	[M]
S628	EVQ21405R	SW TAPE PLAY	[M]
S629	EVQ21405R	SW PAUSE/PLAY	[M]
S630	EVQ21405R	SW DECK EJECT	[M]
S701	RSH1A048-A	SW LEAF	[M]
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW LEAF	[M]
S954	RSH1A019-2U	SW LEAF	[M]
SW502	RSR3A01ZA-H	VOLTAGE SELECTOR	[M]GC ⚠
		CONNECTORS	
CN701	RJS2A6016	16P FFC CONNECTOR	[M]
CN702	RJS1A9319	19P FFC CONNECTOR	[M]
CP501	RJP4G4YA	LEAF SW 4P POST	[M]
CP802	RJP2G18ZA	2P CONNECTOR	[M]
CP1301	RJS1A6804-J	4P CONNECTOR	[M]
CP1450	RJT029W02V-1	5P CONNECTOR	[M]
CP1902	RJT071K09A	9P B/B CONNECTOR	[M]
CS601	RJS1A5210	10P WIRE HOLDER	[M]
CS801	RJS1A6819-J	CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		TRIMMER	
CT1	ECRLA010A53R	TRIMMER CAPACITOR	[M]
		COILS & TRANSFORMERS	
L2	RLQY30S1W	FM COIL	[M]
L3	RLV2C045-0	FERRITE ANTENNA	[M]
L4	RLD4Y45W	COIL	[M]
L6	RL02B131-T	AM OSC COIL	[M]
L7	RLQZP101KT-Y	AXIAL COIL	[M]
L8	RLQY30S1W	FM COIL	[M]
L501	RLL500050T-Y	RF CHOKE COIL	[M]GN ⚠
L502	RLL500050T-Y	RF CHOKE COIL	[M]GN ⚠
L801	RLQZP2R2KT-Y	INDUCTOR	[M]
L802	RLQZP2R2KT-Y	INDUCTOR	[M]
L811	RLQZP2R2KT-Y	INDUCTOR	[M]
L823	RLQZP2R2KT-Y	INDUCTOR	[M]
L831	RLQZP2R2KT-Y	INDUCTOR	[M]
L1301	RL09B17-T	BIAS OSC COIL	[M]
T1	RLI2B015-T	AM IFT	[M]
T501	RTP1L1B011-X	TRANSFORMER	[M]GN ⚠
T501	RTP1L1E018-X	TRANSFORMER	[M]GC ⚠
		COMPONENT COMBINATION	
Z601	RRV12E12404A	AI-JOG	[M]
Z801	RSL5258-G	LCD	[M]
Z861	RCDRPM6937H4	REMOTE CTRL SENSOR	[M]
		CERAMIC FILTERS	
CF1	RLFFETNL02AL	FM CF	[M]
CF3	RLFDFT20AL	FM DISCRIMINATOR	[M]
CF4	RLFCFA450L4B	AM FILTER	[M]GC
CF4	RLFCFA459L4B	AM FILTER	[M]GN
		OSCILLATORS	
X2	RSXZ456KZ02	19 KHZ OSC	[M]
X3	RSXD7M20C01	X'TAL OSC	[M]
X701	RSXZ16M9M06	CERAMIC OSCILLATOR	[M]
X801	RSXZ6M00D01T	6MHZ RESONATOR	[M]
X802	RSXD32K7S02	32.768HKZ X'TAL	[M]
		FUSE	
F501	XBA2C40TB0	FUSE	[M] ⚠
		FUSE HOLDERS	
FH501	EYF52BC	FUSE HOLDER	[M]
FH502	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP501	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠
		HOLDERS	
H501	RJS1A5504	CABLE HOLDER	[M]
H502	RJS1A5504	CABLE HOLDER	[M]
H601	RMR0319	10P CABLE HOLDER	[M]
		JACKS	
JK301	RJJ37TK01-2C	JK HEAD PHONE	[M]
JK501	RJJ1SE01-1H	JK AC INLET (SW501)	[M] ⚠
		WIRES	
W501	REXX0214	POWER TO MAIN WIRE	[M]
W502	RWJ0104170SQ	POWER - BATT WIRE	[M]
W601	RWJ1110150XX	CONTROL TO PANEL WIRE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W602	RWJ4202205KX	SPEAKER WIRE (L)	[M]
W603	RWJ6902170KX	SPEAKER WIRE (R)	[M]
W801	RWJ0302080KK	STANDBY LED WIRE	[M]
W802	RWJ8303110SS	MAIN TO REMO-CON WIRE	[M]
W803	RWJ0302080KK	STANDBY LED WIRE	[M]
		RESISTORS	
R2	ERDS2TJ103T	10K 1/4W	[M]
R3	ERDS2TJ332T	3.3K 1/4W	[M]
R4	ERDS2TJ472T	4.7K 1/4W	[M]
R5	ERDS2TJ221T	220 1/4W	[M]
R6	ERDS2TJ104T	100K 1/4W	[M]
R8	ERDS2TJ104T	100K 1/4W	[M]
R9	ERDS2TJ104T	100K 1/4W	[M]
R11	ERDS2TJ223T	22K 1/4W	[M]
R12	ERDS2TJ103T	10K 1/4W	[M]
R13	ERDS2TJ474T	470K 1/4W	[M]
R14	ERDS2TJ474T	470K 1/4W	[M]
R16	ERDS2TJ104T	100K 1/4W	[M]
R17	ERDS2TJ222T	2.2K 1/4W	[M]
R20	ERDS2TJ223T	22K 1/4W	[M]
R21	ERDS2TJ123T	12K 1/4W	[M]
R22	ERDS2TJ102T	1K 1/4W	[M]
R23	ERDS2TJ223T	22K 1/4W	[M]
R24	ERDS2TJ103T	10K 1/4W	[M]
R25	ERDS2TJ223T	22K 1/4W	[M]
R26	ERDS2TJ103T	10K 1/4W	[M]
R27	ERDS2TJ332T	3.3K 1/4W	[M]
R28	ERDS2TJ223T	22K 1/4W	[M]
R29	ERDS2TJ103T	10K 1/4W	[M]
R30	ERDS2TJ472T	4.7K 1/4W	[M]
R31	ERDS2TJ222T	2.2K 1/4W	[M]
R32	ERDS2TJ331T	330 1/4W	[M]
R91	ERDS2TJ330T	33 1/4W	[M]
R92	ERDS2TJ182T	1.8K 1/4W	[M]
R101	ERDS2TJ101T	100 1/4W	[M]GC
R101	ERDS2TJ102T	1K 1/4W	[M]
R102	ERDS2TJ392T	3.9K 1/4W	[M]
R103	ERDS2TJ123T	12K 1/4W	[M]
R104	ERDS2TJ222T	2.2K 1/4W	[M]
R105	ERDS2TJ152T	1.5K 1/4W	[M]
R106	ERDS2TJ122T	1.2K 1/4W	[M]
R108	ERDS2TJ102T	1K 1/4W	[M]
R109	ERDS2TJ473T	47K 1/4W	[M]
R110	ERDS2TJ105T	1M 1/4W	[M]
R111	ERDS2TJ103T	10K 1/4W	[M]
R112	ERDS2TJ822T	8.2K 1/4W	[M]
R113	ERDS2TJ562T	5.6K 1/4W	[M]
R115	ERDS2TJ123T	12K 1/4W	[M]
R116	ERD2FCVJ4R7T	4.7 1/4W	[M]
R117	ERD2FCVJ4R7T	4.7 1/4W	[M]
R118	ERDS2TJ181T	180 1/4W	[M]
R119	ERDS2TJ822T	8.2K 1/4W	[M]
R120	ERDS2TJ681T	680 1/4W	[M]
R121	ERDS2TJ222T	2.2K 1/4W	[M]
R122	ERDS2TJ471T	470 1/4W	[M]
R123	ERDS2TJ683T	68K 1/4W	[M]
R124	ERDS2TJ682T	6.8K 1/4W	[M]
R201	ERDS2TJ102T	1K 1/4W	[M]
R202	ERDS2TJ392T	3.9K 1/4W	[M]
R203	ERDS2TJ123T	12K 1/4W	[M]
R204	ERDS2TJ222T	2.2K 1/4W	[M]
R205	ERDS2TJ152T	1.5K 1/4W	[M]
R206	ERDS2TJ122T	1.2K 1/4W	[M]
R208	ERDS2TJ102T	1K 1/4W	[M]
R209	ERDS2TJ473T	47K 1/4W	[M]
R210	ERDS2TJ105T	1M 1/4W	[M]
R211	ERDS2TJ103T	10K 1/4W	[M]
R212	ERDS2TJ822T	8.2K 1/4W	[M]
R213	ERDS2TJ562T	5.6K 1/4W	[M]
R215	ERDS2TJ123T	12K 1/4W	[M]
R216	ERD2FCVJ4R7T	4.7 1/4W	[M]
R217	ERD2FCVJ4R7T	4.7 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R218	ERDS2TJ181T	180 1/4W	[M]
R219	ERDS2TJ822T	8.2K 1/4W	[M]
R220	ERDS2TJ681T	680 1/4W	[M]
R221	ERDS2TJ222T	2.2K 1/4W	[M]
R222	ERDS2TJ471T	470 1/4W	[M]
R223	ERDS2TJ683T	68K 1/4W	[M]
R224	ERDS2TJ682T	6.8K 1/4W	[M]
R301	ERDS2TJ563T	56K 1/4W	[M]
R302	ERDS2TJ103T	10K 1/4W	[M]
R303	ERDS2TJ103T	10K 1/4W	[M]
R304	ERD2FCVJ4R7T	4.7 1/4W	[M]
R305	ERDS2TJ222T	2.2K 1/4W	[M]
R306	ERDS2TJ101T	100 1/4W	[M]
R307	ERDS2TJ103T	10K 1/4W	[M]
R308	ERDS2TJ103T	10K 1/4W	[M]
R309	ERDS2TJ472T	4.7K 1/4W	[M]
R310	ERDS2TJ102T	1K 1/4W	[M]
R311	ERDS2TJ102T	1K 1/4W	[M]
R312	ERDS2TJ474T	470K 1/4W	[M]
R313	ERDS2TJ393T	39K 1/4W	[M]
R314	ERDS2TJ103T	10K 1/4W	[M]
R315	ERDS2TJ471T	470 1/4W	[M]
R316	ERDS2TJ471T	470 1/4W	[M]
R317	ERDS2TJ471T	470 1/4W	[M]
R318	ERDS2TJ471T	470 1/4W	[M]
R319	ERDS2TJ223T	22K 1/4W	[M]
R320	ERDS2TJ223T	22K 1/4W	[M]
R321	ERDS2TJ153T	15K 1/4W	[M]
R322	ERDS2TJ1R5T	1.5 1/4W	[M]
R323	ERDS2TJ1R5T	1.5 1/4W	[M]
R324	ERDS2TJ1R5T	1.5 1/4W	[M]
R325	ERDS2TJ471T	470 1/4W	[M]
R326	ERDS2TJ471T	470 1/4W	[M]
R327	ERDS2TJ101T	100 1/4W	[M]
R328	ERDS2TJ331T	330 1/4W	[M]
R329	ERDS2TJ474T	470K 1/4W	[M]
R330	ERDS2TJ103T	10K 1/4W	[M]
R331	ERDS2TJ331T	330 1/4W	[M]
R332	ERDS2TJ331T	330 1/4W	[M]
R333	ERDS2TJ183T	18K 1/4W	[M]
R334	ERDS2TJ152T	1.5K 1/4W	[M]
R335	ERDS2TJ103T	10K 1/4W	[M]
R336	ERDS2TJ472T	4.7K 1/4W	[M]
R337	ERDS2TJ103T	10K 1/4W	[M]
R338	ERDS2TJ102T	1K 1/4W	[M]
R339	ERDS2TJ471T	470 1/4W	[M]
R340	ERDS2TJ104T	100K 1/4W	[M]
R341	ERDS2TJ683T	68K 1/4W	[M]
R401	ERDS2TJ102T	1K 1/4W	[M]
R402	ERDS2TJ102T	1K 1/4W	[M]
R405	ERDS2TJ330T	33 1/4W	[M]
R406	ERDS2TJ330T	33 1/4W	[M]
R408	ERDS2TJ472T	4.7K 1/4W	[M]
R409	ERDS2TJ335T	3.3M 1/4W	[M]
R418	ERDS2TJ105T	1M 1/4W	[M]
R419	ERDS2TJ103T	10K 1/4W	[M]
R501	ERDS2TJ271T	270 1/4W	[M]
R551	ERDS2TJ151T	150 1/4W	[M]
R552	ERDS2TJ821T	820 1/4W	[M]
R556	ERDS2TJ391T	390 1/4W	[M]
R601	ERDS2TJ102T	1K 1/4W	[M]
R602	ERDS2TJ102T	1K 1/4W	[M]
R603	ERDS2TJ122T	1.2K 1/4W	[M]
R604	ERDS2TJ182T	1.8K 1/4W	[M]
R605	ERDS2TJ222T	2.2K 1/4W	[M]
R606	ERDS2TJ272T	2.7K 1/4W	[M]
R607	ERDS2TJ472T	4.7K 1/4W	[M]
R621	ERDS2TJ102T	1K 1/4W	[M]
R622	ERDS2TJ102T	1K 1/4W	[M]
R623	ERDS2TJ122T	1.2K 1/4W	[M]
R624	ERDS2TJ182T	1.8K 1/4W	[M]
R625	ERDS2TJ222T	2.2K 1/4W	[M]
R626	ERDS2TJ272T	2.7K 1/4W	[M]
R627	ERDS2TJ472T	4.7K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R628	ERDS2TJ682T	6.8K 1/4W	[M]
R629	ERDS2TJ103T	10K 1/4W	[M]
R630	ERDS2TJ223T	22K 1/4W	[M]
R701	ERJ6GEYJ4R7V	4.7 1/10W	[M]
R702	ERJ6GEYJ103V	10K 1/10W	[M]
R704	ERJ6GEYJ102V	1K 1/10W	[M]
R705	ERJ6GEYJ154V	150K 1/10W	[M]
R706	ERJ6GEYJ102V	1K 1/10W	[M]
R707	ERJ6GEYJ393V	39K 1/10W	[M]
R708	ERJ6GEYJ223V	22K 1/10W	[M]
R709	ERJ6GEYJ683V	68K 1/10W	[M]
R711	ERJ6GEYJ823V	82K 1/10W	[M]
R712	ERJ8GEYJ221V	220 1/8W	[M]
R714	ERJ6GEY0R00V	0 1/10W	[M]
R715	ERJ6GEYJ102V	1K 1/10W	[M]
R717	ERJ6GEYJ102V	1K 1/10W	[M]
R718	ERJ6GEYJ102V	1K 1/10W	[M]
R721	ERJ6GEYJ101V	100 1/10W	[M]
R723	ERJ6GEYJ103V	10K 1/10W	[M]
R724	ERJ6GEYJ153V	15K 1/10W	[M]
R725	ERJ6GEYJ681V	680 1/10W	[M]
R727	ERJ6GEYJ272V	2.7K 1/10W	[M]
R728	ERJ6GEYJ222V	2.2K 1/10W	[M]
R729	ERJ6GEYJ272V	2.7K 1/10W	[M]
R731	ERJ6GEYJ103V	10K 1/10W	[M]
R732	ERJ6GEYJ102V	1K 1/10W	[M]
R735	ERJ6GEYJ101V	100 1/10W	[M]
R736	ERJ6GEYJ101V	100 1/10W	[M]
R741	ERJ6GEYJ473V	47K 1/10W	[M]
R742	ERJ6GEYJ224V	220K 1/10W	[M]
R744	ERJ6GEYJ124V	120K 1/10W	[M]
R749	ERJ6GEYJ272V	2.7K 1/10W	[M]
R753	ERJ6GEYJ100V	10 1/10W	[M]
R754	ERJ6GEYJ5R6V	5.6 1/10W	[M]
R801	ERDS2TJ154T	150K 1/4W	[M]
R802	ERDS2TJ154T	150K 1/4W	[M]
R803	ERDS2TJ104T	100K 1/4W	[M]
R804	ERDS2TJ103T	10K 1/4W	[M]
R806	ERDS2TJ332T	3.3K 1/4W	[M]
R807	ERDS2TJ332T	3.3K 1/4W	[M]
R808	ERDS2TJ102T	1K 1/4W	[M]
R809	ERDS2TJ105T	1M 1/4W	[M]
R810	ERDS2TJ334T	330K 1/4W	[M]
R811	ERDS2TJ104T	100K 1/4W	[M]
R815	ERDS2TJ102T	1K 1/4W	[M]
R816	ERDS2TJ102T	1K 1/4W	[M]
R817	ERDS2TJ103T	10K 1/4W	[M]
R818	ERDS2TJ103T	10K 1/4W	[M]
R819	ERDS2TJ104T	100K 1/4W	[M]
R820	ERDS2TJ104T	100K 1/4W	[M]
R821	ERDS2TJ104T	100K 1/4W	[M]
R822	ERDS2TJ104T	100K 1/4W	[M]
R823	ERDS2TJ471T	470 1/4W	[M]
R825	ERDS2TJ102T	1K 1/4W	[M]
R826	ERDS2TJ102T	1K 1/4W	[M]
R827	ERDS2TJ102T	1K 1/4W	[M]
R828	ERDS2TJ102T	1K 1/4W	[M]
R829	ERDS2TJ102T	1K 1/4W	[M]
R830	ERDS2TJ474T	470K 1/4W	[M]
R831	ERDS2TJ472T	4.7K 1/4W	[M]
R832	ERDS2TJ103T	10K 1/4W	[M]
R833	ERDS2TJ103T	10K 1/4W	[M]
R841	ERDS2TJ103T	10K 1/4W	[M]
R842	ERDS2TJ102T	1K 1/4W	[M]
R848	ERDS2TJ104T	100K 1/4W	[M]
R849	ERDS2TJ104T	100K 1/4W	[M]
R850	ERDS2TJ104T	100K 1/4W	[M]
R855	ERDS2TJ472T	4.7K 1/4W	[M]
R856	ERDS2TJ472T	4.7K 1/4W	[M]
R875	ERDS2TJ102T	1K 1/4W	[M]
R876	ERDS2TJ103T	10K 1/4W	[M]
R877	ERDS2TJ103T	10K 1/4W	[M]
R878	ERDS2TJ103T	10K 1/4W	[M]
R879	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R880	ERDS2TJ472T	4.7K 1/4W	[M]
R881	ERDS2TJ472T	4.7K 1/4W	[M]
R882	ERDS2TJ472T	4.7K 1/4W	[M]
R883	ERDS2TJ472T	4.7K 1/4W	[M]
R884	ERDS2TJ472T	4.7K 1/4W	[M]
R885	ERDS2TJ472T	4.7K 1/4W	[M]
R886	ERDS2TJ103T	10K 1/4W	[M]
R887	ERDS2TJ103T	10K 1/4W	[M]
R888	ERDS2TJ103T	10K 1/4W	[M]
R889	ERDS2TJ103T	10K 1/4W	[M]
R890	ERDS2TJ103T	10K 1/4W	[M]
R891	ERDS2TJ472T	4.7K 1/4W	[M]
R892	ERDS2TJ472T	4.7K 1/4W	[M]
R893	ERDS2TJ472T	4.7K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R1000	ERDS2TJ103T	10K 1/4W	[M]
R1001	ERDS2TJ683T	68K 1/4W	[M]
R1002	ERDS2TJ472T	4.7K 1/4W	[M]
R1101	ERDS2TJ223T	22K 1/4W	[M]
R1102	ERDS2TJ560T	56 1/4W	[M]
R1103	ERDS2TJ392T	3.9K 1/4W	[M]
R1104	ERDS2TJ102T	1K 1/4W	[M]
R1107	ERDS2TJ104T	100K 1/4W	[M]
R1108	ERDS2TJ392T	3.9K 1/4W	[M]
R1109	ERDS2TJ153T	15K 1/4W	[M]
R1110	ERDS2TJ474T	470K 1/4W	[M]
R1112	ERDS2TJ104T	100K 1/4W	[M]
R1201	ERDS2TJ223T	22K 1/4W	[M]
R1202	ERDS2TJ560T	56 1/4W	[M]
R1203	ERDS2TJ392T	3.9K 1/4W	[M]
R1204	ERDS2TJ102T	1K 1/4W	[M]
R1207	ERDS2TJ104T	100K 1/4W	[M]
R1208	ERDS2TJ392T	3.9K 1/4W	[M]
R1209	ERDS2TJ153T	15K 1/4W	[M]
R1210	ERDS2TJ474T	470K 1/4W	[M]
R1212	ERDS2TJ104T	100K 1/4W	[M]
R1299	ERDS2TJ333T	33K 1/4W	[M]
R1304	ERDS2TJ101T	100 1/4W	[M]
R1305	ERDS2TJ102T	1K 1/4W	[M]
R1310	ERDS2TJ102T	1K 1/4W	[M]
R1311	ERDS2TJ563T	56K 1/4W	[M]
R1313	ERDS2TJ221T	220 1/4W	[M]
R1314	ERDS2TJ100T	10 1/4W	[M]
R1340	ERDS2TJ223T	22K 1/4W	[M]
R1341	ERDS2TJ471T	470 1/4W	[M]
R1352	ERDS2TJ104T	100K 1/4W	[M]
R1353	ERDS2TJ474T	470K 1/4W	[M]
R1401	ERDS2TJ334T	330K 1/4W	[M]
R1404	ERDS2TJ472T	4.7K 1/4W	[M]
R1405	ERDS2TJ472T	4.7K 1/4W	[M]
R1406	ERDS2TJ472T	4.7K 1/4W	[M]
R1407	ERDS2TJ473T	47K 1/4W	[M]
R1408	ERDS2TJ473T	47K 1/4W	[M]
R1409	ERDS2TJ473T	47K 1/4W	[M]
R1410	ERDS2TJ223T	22K 1/4W	[M]
R1411	ERDS2TJ331T	330 1/4W	[M]
R1412	ERDS2TJ103T	10K 1/4W	[M]
R1413	ERDS2TJ223T	22K 1/4W	[M]
R1414	ERDS2TJ473T	47K 1/4W	[M]
R1451	ERDS2TJ331T	330 1/4W	[M]
R1452	ERDS2TJ102T	1K 1/4W	[M]
R1453	ERDS2TJ273T	27K 1/4W	[M]
R1501	ERDS2TJ101T	100 1/4W	[M]
R1502	ERDS2TJ475T	4.7M 1/4W	[M]
R1503	ERDS2TJ222T	2.2K 1/4W	[M]
		CAPACITORS	
C1	ECBT1H470J5	47P 50V	[M]
C2	ECBT1H100JC5	10P 50V	[M]
C3	ECFR1C223KR	0.022 16V	[M]
C4	ECBT1H102KB5	1000P 50V	[M]
C5	ECBT1H5R6KC5	5.6P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6	ECBT1H102KB5	1000P 50V	[M]
C7	ECBT1H120JC5	12P 50V	[M]
C8	ECBT1H102KB5	1000P 50V	[M]
C9	ECBT1H102KB5	1000P 50V	[M]
C10	ECBT1H100JC5	10P 50V	[M]
C12	ECBT1H331KB5	330P 50V	[M]
C13	ECEA1CKA100B	10 16V	[M]
C14	ECBT1H102KB5	1000P 50V	[M]
C15	ECFR1C683KR	0.068 16V	[M]
C16	ECFR1C823MR	0.082 16V	[M]
C17	ECFR1C823MR	0.082 16V	[M]
C18	ECFR1C223KR	0.022 16V	[M]
C19	ECFR1C223KR	0.022 16V	[M]
C20	ECA1HAK010XB	1 50V	[M]
C21	ECA1HAK010XB	1 50V	[M]
C22	ECA1HAK4R7XB	4.7 50V	[M]
C23	ECFR1C333MR	0.033 16V	[M]
C24	ECFR1C333MR	0.033 16V	[M]
C30	ECBT1H331KB5	330P 50V	[M]
C31	ECBT1C103MS5	0.01 16V	[M]
C32	ECBT1H102KB5	1000P 50V	[M]
C33	ECBT1H102KB5	1000P 50V	[M]
C34	ECBT1H102KB5	1000P 50V	[M]
C35	ECA1CAK101XB	100 16V	[M]
C36	ECA1CAK101XB	100 16V	[M]
C37	ECBT1C103MS5	0.01 16V	[M]
C39	ECBT1H120JC5	12P 50V	[M]
C40	ECBT1C222KR5	2200P 16V	[M]
C42	ECBT1H180JC5	18P 50V	[M]
C43	ECBT1H101KB5	100P 50V	[M]
C44	ECA1HAK2R2XB	2.2 50V	[M]
C45	ECBT1H102KB5	1000P 50V	[M]
C48	ECA1HAK010XB	1 50V	[M]
C49	ECBT1H102KB5	1000P 50V	[M]
C50	ECBT1H102KB5	1000P 50V	[M]
C51	ECA1HAK010XB	1 50V	[M]
C53	ECBT1H102KB5	1000P 50V	[M]
C54	ECBT1H102KB5	1000P 50V	[M]
C91	ECA1CAK220XB	22 16V	[M]
C92	ECBT1H331KB5	330P 50V	[M]
C98	ECBT1H331KB5	330P 50V	[M]
C99	ECBT1H102KB5	1000P 50V	[M]GN
C101	ECA1HAK010XB	1 50V	[M]
C102	ECA1HAK010XB	1 50V	[M]
C103	ECA1HAK010XB	1 50V	[M]
C104	ECA1HAK010XB	1 50V	[M]
C106	ECFR1C683KR	0.068 16V	[M]
C107	ECEA1CKA100B	10 16V	[M]
C108	ECBT1H101KB5	100P 50V	[M]
C109	ECA1HAK0R1XB	0.1 50VP	[M]
C111	ECBT1H102KB5	1000P 50V	[M]
C112	ECQV1H104JZ3	0.1 50V	[M]
C113	ECQV1H104JZ3	0.1 50V	[M]
C114	ECEA1CKA100B	10 16V	[M]
C115	ECA1HAK2R2XB	2.2 50V	[M]
C116	ECBT1H333KB5	0.033 50V	[M]
C117	ECA1HAKR33XB	0.33 50V	[M]
C118	ECBT1C272KR5	2700P 16V	[M]
C119	ECA1CM331B	330 16V	[M]
C120	ECFR1C223KR	0.022 16V	[M]
C121	ECFR1C153KR	0.015 16V	[M]
C122	ECBT1H471KB5	470P 50V	[M]
C123	ECBT1C332KR5	3300P 16V	[M]
C201	ECA1HAK010XB	1 50V	[M]
C202	ECA1HAK010XB	1 50V	[M]
C203	ECA1HAK010XB	1 50V	[M]
C204	ECA1HAK010XB	1 50V	[M]
C206	ECFR1C683KR	0.068 16V	[M]
C207	ECEA1CKA100B	10 16V	[M]
C208	ECBT1H101KB5	100P 50V	[M]
C209	ECA1HAK0R1XB	0.1 50V	[M]
C211	ECBT1H102KB5	1000P 50V	[M]
C212	ECQV1H104JZ3	0.1 50V	[M]
C213	ECQV1H104JZ3	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C214	ECEA1CKA100B	10 16V	[M]
C215	ECA1HAK2R2XB	2.2 50V	[M]
C216	ECBT1H333KB5	0.033 50V	[M]
C217	ECA1HAKR33XB	0.33 50V	[M]
C218	ECBT1C272KR5	2700P 16V	[M]
C219	ECA1CM331B	330 16V	[M]
C220	ECFR1C223KR	0.022 16V	[M]
C221	ECFR1C153KR	0.015 16V	[M]
C222	ECBT1H471KB5	470P 50V	[M]
C223	ECBT1C332KR5	3300P 16V	[M]
C301	ECA1EAM472XE	4700 25V	[M]
C302	ECA1EAM101XB	100 25V	[M]
C303	ECA1CAK101XB	100 16V	[M]
C304	ECEA1CKA100B	10 16V	[M]
C305	ECBT1H102KB5	1000P 50V	[M]
C307	ECA1CAK101XB	100 16V	[M]
C308	ECBT1H471KB5	470P 50V	[M]
C309	ECA1CAK101XB	100 16V	[M]
C310	ECA1CAK101XB	100 16V	[M]
C312	ECBT1H104ZF5	0.1 50V	[M]
C313	ECA1EAK470XB	47 25V	[M]
C314	ECBT1H104ZF5	0.1 50V	[M]
C315	ECBT1E103ZF5	0.01 25V	[M]
C316	ECA1HAK010XB	1 50V	[M]
C317	ECA1HAK010XB	1 50V	[M]
C318	ECA1CAK470XB	47 16V	[M]
C401	ECA1CAK470XB	47 16V	[M]
C402	ECBT1H223KB5	0.022 50V	[M]
C411	ECA1CAK470XB	47 16V	[M]
C414	ECA1HAK010XB	1 50V	[M]
C420	ECBT1H221KB5	220P 50V	[M]
C422	ECBT1H221KB5	220P 50V	[M]
C423	ECBT1H221KB5	220P 50V	[M]
C501	ECKR1H103ZF5	0.01 50V	[M]
C502	ECKR1H103ZF5	0.01 50V	[M]
C503	ECKR1H103ZF5	0.01 50V	[M]
C504	ECKR1H103ZF5	0.01 50V	[M]
C551	ECBT1H102KB5	1000P 50V	[M]
C601	ECBT1H101KB5	100P 50V	[M]
C602	ECBT1H101KB5	100P 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUV1E104MBN	0.1 25V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUV1E104MBN	0.1 25V	[M]
C706	ECUV1H272KBN	2700P 50V	[M]
C707	ECUV1E273KBN	0.027 25V	[M]
C710	ECUV1H121JCN	120P 50V	[M]
C711	ECUV1E104KBN	0.1 25V	[M]
C712	ECUV1E104KBN	0.1 25V	[M]
C713	ECUV1E104MBN	0.1 25V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1H272KBN	2700P 50V	[M]
C716	ECUV1H821KBN	820P 50V	[M]
C717	ECUV1E104ZFN	0.1 25V	[M]
C718	ECUV1C224KBN	0.22 16V	[M]
C721	ECUV1H100DCN	10P 50V	[M]
C722	ECUV1H100DCN	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUV1E104MBN	0.1 25V	[M]
C725	ECUV1H102KBN	1000P 50V	[M]
C726	ECUV1H102KBN	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C730	ECUV1E104ZFN	0.1 25V	[M]
C731	ECA0JAK221XI	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUV1E104MBN	0.1 25V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUV1E104ZFN	0.1 25V	[M]
C736	ECUV1E104ZFN	0.1 25V	[M]
C737	ECUV1E104ZFN	0.1 25V	[M]
C738	ECUV1H563KBN	0.056 50V	[M]
C739	ECUV1H222KBN	2200P 50V	[M]
C742	ECUV1E273KBN	0.027 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C743	ECUV1E104ZFN	0.1 25V	[M]
C744	ECUV1E822KBN	8200P 25V	[M]
C745	ECUV1E104ZFN	0.1 25V	[M]
C747	ECUV1H181JCN	180P 50V	[M]
C749	ECUV1H222KBN	2200P 50V	[M]
C750	ECUV1E104MBN	0.1 25V	[M]
C751	ECUV1E104MBN	0.1 25V	[M]
C752	ECUV1H152KBN	1500P 50V	[M]
C753	ECUV1H471KBM	470P 50V	[M]
C754	ECUV1H471KBN	470P 50V	[M]
C801	ECBT1H104ZF5	0.1 50V	[M]
C802	ECEA1CKA100B	10 16V	[M]
C803	ECBT1C103MS5	0.01 16V	[M]
C807	ECBT1H102KB5	1000P 50V	[M]
C808	ECBT1H102KB5	1000P 50V	[M]
C809	ECBT1H820KB5	82P 50V	[M]
C810	ECBT1H470J5	47P 50V	[M]
C811	ECBT1H820KB5	82P 50V	[M]
C812	ECBT1H470J5	47P 50V	[M]
C813	ECBT1H180JC5	18P 50V	[M]
C814	ECBT1H220JC5	22P 50V	[M]
C815	ECA1HAK010XB	1 50V	[M]
C818	ECBT1H561KB5	560P 50V	[M]
C819	ECBT1H561KB5	560P 50V	[M]
C820	ECBT1H561KB5	560P 50V	[M]
C824	ECBT1C103MS5	0.01 16V	[M]
C831	ECBT1H101KB5	100P 50V	[M]
C832	ECBT1H101KB5	100P 50V	[M]
C833	ECBT1H331KB5	330P 50V	[M]
C834	ECBT1H102KB5	1000P 50V	[M]
C840	ECBT1H102KB5	1000P 50V	[M]
C841	ECBT1H104KB5	0.1 50V	[M]
C849	ECBT1H221KB5	220P 50V	[M]
C850	ECBT1H221KB5	220P 50V	[M]
C851	ECBT1H102KB5	1000P 50V	[M]
C852	ECBT1H102KB5	1000P 50V	[M]
C853	ECBT1H102KB5	1000P 50V	[M]
C854	ECBT1H101KB5	100P 50V	[M]
C855	ECBT1H101KB5	100P 50V	[M]
C856	ECBT1H101KB5	100P 50V	[M]
C865	ECBT1H561KB5	560P 50V	[M]
C866	ECEA1AKA470B	47 10V	[M]
C868	ECBT1C103MS5	0.01 16V	[M]
C1001	ECA1CAK470XB	47 16V	[M]
C1101	ECBT1H101KB5	100P 50V	[M]
C1102	ECBT1C122MR5	1200P 16V	[M]
C1103	ECBT1H101KB5	100P 50V	[M]
C1104	ECFR1C393KR	0.039 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1105	ECEA1CKA100B	10 16V	[M]
C1106	ECA1CAK101XB	100 16V	[M]
C1107	ECA1HAK010XB	1 50V	[M]
C1108	ECBT1H821KB5	820P 50V	[M]
C1109	ECEA1CKA100B	10 16V	[M]
C1110	ECBT1H821KB5	820P 50V	[M]
C1201	ECBT1H101KB5	100P 50V	[M]
C1202	ECBT1C122MR5	1200P 16V	[M]
C1203	ECBT1H101KB5	100P 50V	[M]
C1204	ECFR1C393KR	0.039 16V	[M]
C1205	ECEA1CKA100B	10 16V	[M]
C1206	ECA1CAK101XB	100 16V	[M]
C1207	ECA1HAK010XB	1 50V	[M]
C1208	ECBT1H821KB5	820P 50V	[M]
C1209	ECEA1CKA100B	10 16V	[M]
C1210	ECBT1H821KB5	820P 50V	[M]
C1301	ECBT1C103MS5	0.01 16V	[M]
C1304	ECQP1102JZT	1000P 100V	[M]
C1305	ECQP2A151JZT	150P 100V	[M]
C1306	ECA1CAK101XB	100 16V	[M]
C1307	ECBT1C822MS5	8200P 16V	[M]
C1308	ECBT1C103MS5	0.01 16V	[M]
C1325	ECA1CAK101XB	100 16V	[M]
C1451	ECA1CAK101XB	100 16V	[M]
C1500	ECA1CAK101XB	100 16V	[M]
C1501	ECA1CAK220XB	22 16V	[M]
C1502	ECEA1CKA100B	10 16V	[M]
C1503	ECFR1C473KR	0.047 16V	[M]
		CHIP JUMPER	
RJ701	ERJ6GEY0R00V	0 1/10W	[M]
RJ702	ERJ8GEY0R00V	0 1/8W	[M]
RJ709	ERJ8GEY0R00V	0 1/8W	[M]
RJ712	ERJ8GEY0R00V	0 1/8W	[M]
RJ722	ERJ6GEY0R00V	0 1/10W	[M]
RJ723	ERJ6GEY0R00V	0 1/10W	[M]
RJ724	ERJ6GEY0R00V	0 1/10W	[M]
RJ726	ERJ6GEY0R00V	0 1/10W	[M]
RJ727	ERJ6GEY0R00V	0 1/10W	[M]
RJ728	ERJ6GEY0R00V	0 1/10W	[M]
RJ731	ERJ6GEY0R00V	0 1/10W	[M]
RJ732	ERJ6GEY0R00V	0 1/10W	[M]
RJ734	ERJ6GEY0R00V	0 1/10W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

19.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0618	GIFT BOX	[M]GC
P1	RPGX0619	GIFT BOX	[M]GN
P2	RPNX0111	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR648251	REMOTE CON.	[M]
A1-1	UR64EC2337A	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF)	[M]GC
A2	RJA0035-X	AC CORD (SF)	[M]GN
A3	RQT5189-B	O/I BOOK (En)	[M]GN
A3	RQT5190-G	O/I BOOK (En/Cn/Ar)	[M]GC
A3	RQT5191-M	O/I BOOK (Sp)	[M]GC
A4	RJP1SG04-H	AC CORD ADAPTOR	[M]GC